SLOVENSKI STANDARD
SIST EN 3867:2004

01-maj-2004

Aerospace series - Pipe couplings, loose flanges and seals - Flanges in titanium alloy TI-P64001

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Ta slovenski standard je istoveten z: **EN 3867:2003**

ICS:

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

SIST EN 3867:2004 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 3867

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ICS 49.080

English version

Aerospace series - Pipe couplings, loose flanges and seals - Flanges in titanium alloy TI-P64001

This European Standard was approved by CEN on 2 June 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.

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

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Foreword

This document (EN 3867:2003) has been prepared by the European Association of Aerospace Manufacturers – Standardization (AECMA-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 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of an identical text or by endorsement, at the latest by July 2003, and conflicting national standards shall be withdrawn at the latest by July 2003.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 the United Kingdom.

1 Scope

This standard specifies the characteristics of flanges for pipe couplings in titanium alloy TI-P64001 for aerospace applications.

NOTE: Assembly in accordance with TR 4053

2 Normative references

ISO 286-2 ISO system of limits and fits - Part 2 : Tables of standard tolerance grades and limit deviations for holes and shafts

EN 2000 Aerospace series - Quality assurance - EN aerospace products - Approval of the quality system of manufacturers

EN 2424 Aerospace series - Marking of aerospace products

EN 3310 Aerospace series – Titanium alloy TI-P64001 – Not heat treated – Grade 2 forging stock, for annealed forgings – *a* or $D \leq 360$ mm [1)]

EN 3311 Aerospace series – Titanium alloy TI-P64001 – Annealed – Bar for machining – $D \leq 150$ mm [1)]

TR 4053 Aerospace series - Pipe couplings, loose flanges and seals in titanium alloy - Assembly recommendations [2)]

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

2) Published as AECMA Technical Report at the date of publication of this standard

3 Required characteristics

3.1 Configuration - Dimensions - Tolerances – Masses

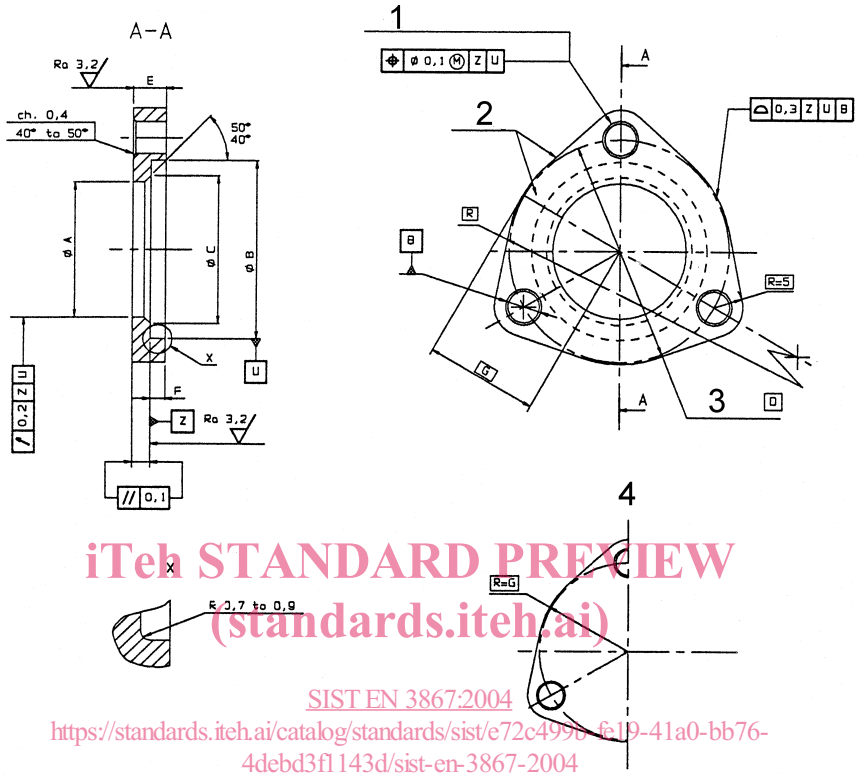
See figure 1 and table 1. Dimensions and tolerances are in millimetres.

3.2 Material

EN 2530

Ra 6,3 (Ra 3,2)

Remove sharp edges 0,1 to 0,4



Key

1 3 equidistant holes Ø 5,4 H13
2 Marking
2 Ø Boring
4 Admissible form

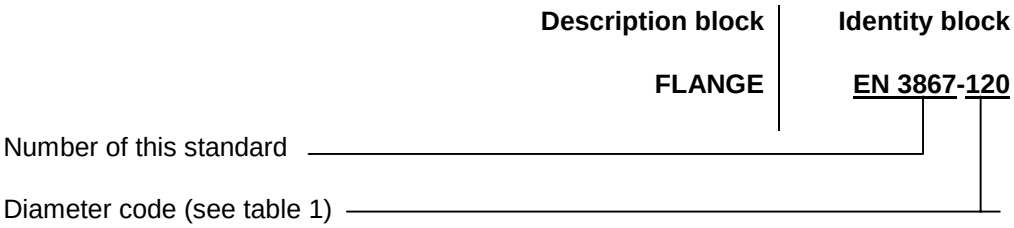
Figure 1

Table 1

Diameter code	Tube nominal diameter	*A* [1] H13	*B* [1] H10	*C* + 0,3 0	*D*	*E* ± 0,2	*F* 0 -0,5	*G*	*R*
120	12	14,1	21,4	16,2	29	4,5	2	13,8	56,2
140	14	16,1	23,4	18,2	31			14,8	49,4
160	16	19,1	26,4	21,2	34			16,3	44,8
180	18	21,1	28,4	23,2	36	5,5	2,5	17,3	43,5
200	20	23,1	30,4	25,2	38			19,3	35,9
220	22	25,1	32,4	27,2	40			20,3	36,6
250	25	28,1	35,4	30,2	43	6,5	3	21,8	37,5
280	28	31,1	38,4	33,2	46			23,3	
320	32	35,1	42,4	37,2	50			25,3	38,9
400	40	43,1	50,4	45,2	58			29,3	42
1) Tolerance in accordance with ISO 286-2									

4 Designation

EXAMPLE :



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

5 Identification marking

EN 2424, category A, as indicated on figure 1.

6 Quality assurance

EN 2000