SLOVENSKI STANDARD
SIST EN 4804:2017

01-november-2017

Aeronavtika - Prirobnične spojke - Vrtljiva prirobnica iz nikljeve zlitine s štirimi pritrdilnimi luknjami - Palčne mere

Aerospace series - Flange couplings - Swivel flange with 4 fastening holes, in nickel alloy - Inch series

Luft- und Raumfahrt - Rohrverschraubung mit Flanschen - Losen Flanschen mit 4 Befestigungslöchern, aus Nickellegierung - Inch-Reihe

Série aérospatiale - Raccordement à bride - Brides flottantes avec 4 trous de fixation, en alliage de nickel - Série en inches

Ta slovenski standard je istoveten z: **EN 4804:2017**

ICS:

23.040.60	Prirobnice, oglavki in spojni elementi	Flanges, couplings and joints
49.080	Letalski in vesoljski hidravlični sistemi in deli	Aerospace fluid systems and components

SIST EN 4804:2017 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 4804

June 2017

ICS 49.080

English Version

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This European Standard was approved by CEN on 21 November 2016.

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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 CEN-CENELEC 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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Ref. No. EN 4804:2017 E

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European foreword

This document (EN 4804:2017) 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 European 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of an identical text or by endorsement, at the latest by December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

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1 Scope

This European Standard specifies the characteristics of swivel flanges, 4 holes, for pipe couplings in nickel alloy for inch series aerospace applications.

Nominal pressure: up to 21 000 kPa; depends on the associated seal, tube material, tube diameter and tube wall thickness in the assembly (see EN 4814).

NOTE Assembly in accordance with TR 4815.

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.

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

EN 2516, *Aerospace series — Passivation of corrosion resisting steels and decontamination of nickel base alloys*

EN 3671, *Aerospace series - Heat resisting alloy NI-PH3601 (NiCr22Mo9Nb) - Non heat treated - Forging stock - a or D ≤ 250 mm*

EN 4376, *Aerospace series - Heat resisting alloy NiCr19Fe19Nb5Mo3 (2.4668) solution treated and precipitation treated - Bar and section, De ≤ 200 mm*

EN 4377, *Aerospace series - Heat resisting alloy NiCr19Fe19Nb5Mo3 (2.4668) - Non heat treated - Forging stock - a or D ≤ 300 mm*

EN 4379, *Aerospace series - Heat resisting alloy NI-PH3601 (NiCr22Mo9Nb) - Solution treated, forging De ≤ 200 mm*

EN 4380, *Aerospace series — Heat resisting alloy NI-PH3601 (NiCr22Mo9Nb) — Solution treated — Bar and section — D_e ≤ 200 mm*[1)]

EN 4814, *Aerospace series — Flange couplings up to 21 000 kPa — Technical specification — Inch series*

EN 9100, *Quality Management Systems — Requirements for Aviation, Space and Defense Organizations*

TR 4815, *Aerospace series — Flange couplings up to 21 000 kPa — Design standard — Inch series*[2)]

3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

See Figure 1 and Table 2. Dimensions and tolerances are in millimetres, except otherwise specified.

3.2 Material and surface treatment

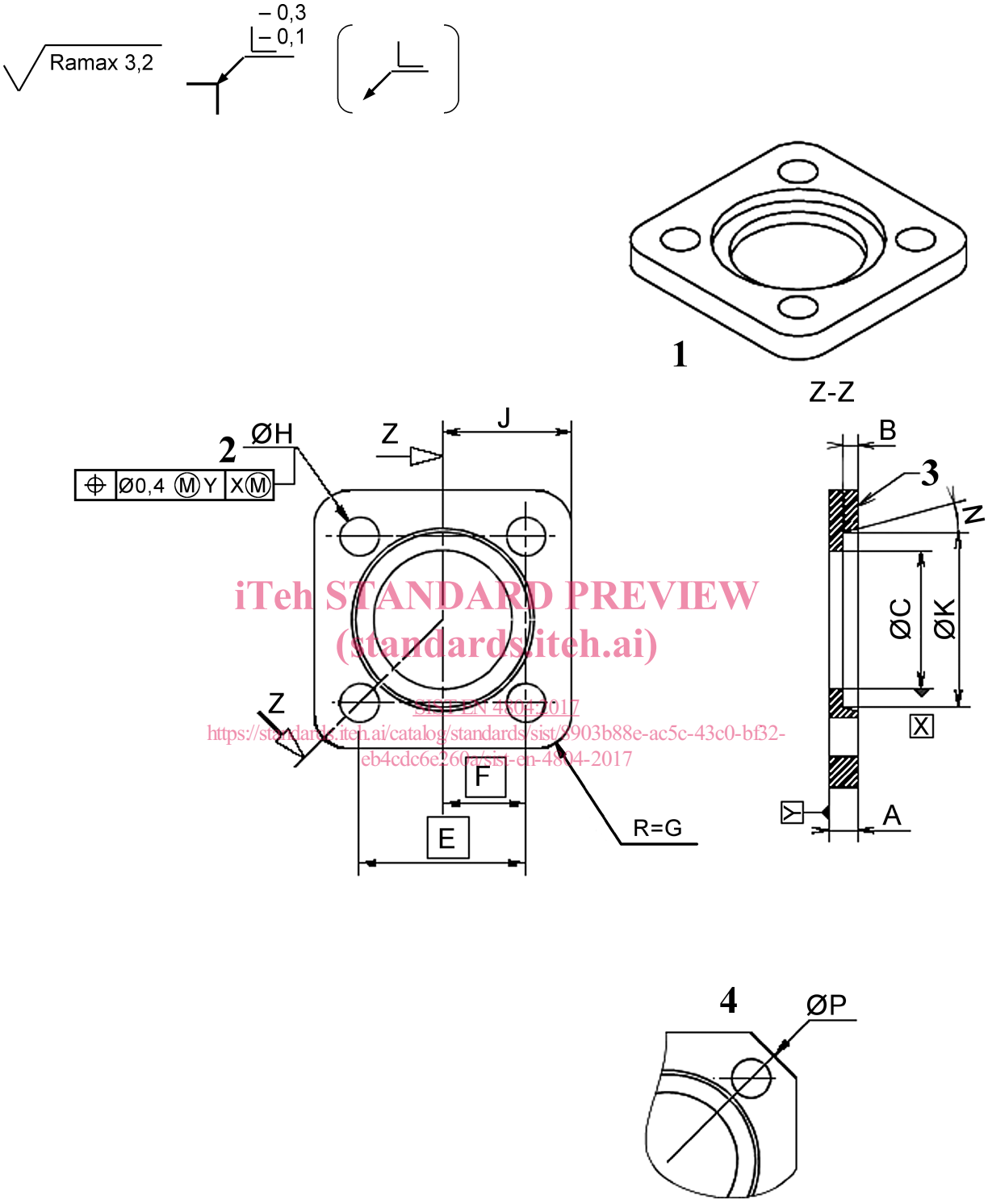
Table 1

Material	Code
EN 4380 or EN 3671 or EN 4379	1
EN 4376 or EN 4377	2

1) Published as ASD-STAN Prestandard at the date of publication of this European Standard. (http://www.asd-stan.org/)

2) Published as ASD-STAN Technical Report at the date of publication of this European Standard. (http://www.asd-stan.org/)

Surface finish: Passivation EN 2516.



Key

1 3D view (for information only)
2 4 holes
3 Marking
4 Alternative shape

Figure 1

Table 2

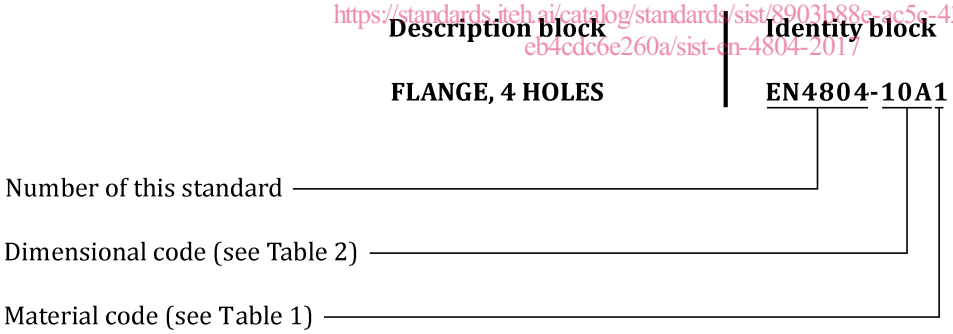
Dimensional code[a]	Nominal diameter		*A*	*B*	*ØC*	*E*	*F*	*G*		*ØH*		*J*	*ØK*	*N*		*ØP*	Mass[b]
	inch	mm	±0,25	+0,15 0	±0,25	Theo.	Theo.	min	max	min	max	±0,25	+0,15 0	min	max	±0,5	
10A	.625	15,875	5,20	2,40	20,30	26,37	13,185	5,60	7,10	5,50	5,70	19,70	28,80	14°00'	16°00'	49,5	39,8
10B	.625	15,875	5,20	2,40	20,30	28,30	14,15	5,60	7,10	7,10	7,30	22,50	28,80	21°30'	22°30'	56,7	43,8
12A	.750	19,050	5,20	2,40	24,40	29,36	14,68	5,60	7,10	5,50	5,70	21,20	32,00	21°30'	22°30'	54,2	43,9
12B	.750	19,050	5,20	2,40	24,40	30,48	15,24	5,60	7,10	7,10	7,30	23,60	32,00	21°30'	22°30'	55,8	45,2
16A	1.000	25,400	5,20	2,40	30,70	33,32	16,66	5,60	7,10	5,50	5,70	23,20	38,35	14°00'	16°00'	59,8	45,4
16B	1.000	25,400	5,20	2,40	30,70	35,92	17,96	5,60	7,10	7,10	7,30	27,20	38,35	21°30'	22°30'	63,5	53,4
20B	1.250	31,750	5,45	2,65	37,30	42,06	21,03	7,10	8,90	7,10	7,30	28,50	47,10	21°30'	22°30'	72,1	79,0
24B	1.500	38,100	6,00	2,95	42,90	46,02	23,01	7,10	8,90	7,10	7,30	30,50	54,20	14°00'	16°00'	81,2	87,5
28B	1.750	44,450	6,20	3,15	50,50	52,37	26,19	7,10	8,90	7,10	7,30	33,70	60,60	21°30'	22°30'	90,2	102,9
32C	2.000	50,800	6,20	3,15	56,90	60,33	30,17	7,10	8,90	8,60	8,90	38,60	70,10	21°30'	22°30'	101,5	118,7

a This code is composed with the following elements:
- Nominal diameter given in 16th of inches within 2 digit;
- Bolt nominal thread diameter [*A*: .1900 in (4,826 mm); *B*: .2500 in (6,35 mm); *C*: .3125 in (7,938 mm)].

b Mass ≈ quoted in kg/1 000 parts.

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 Technical specification

See EN 4814.

7 Quality Assurance

Approval of the manufactures.

See EN 9100.