SLOVENSKI STANDARD

SIST EN 2602:2006

01-september-2006

Aeronavtika ï Vhodi za adapterje, z navojem, z zaklepnim obroļ kom ï Geometrijski naļ rt

Aerospace series - Ports for adaptors, threaded, with lockring - Geometric configuration

Luft- und Raumfahrt - Einschraublöcher für gerade Einschraubverschraubungen mit Sicherungsring - Konstruktionsblatt

Série aérospatiale - Orifices pour raccords droits, filetés, avec bague de sécurité - Configuration géométrique

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Ta slovenski standard je istoveten z: EN 2602:2005

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ICS:

49.030.99

SIST EN 2602:2006 **en**

2003-01.Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 2602

December 2005

ICS 49.030.99

English Version

Aerospace series - Ports for adaptors, threaded, with lockring - Geometric configuration

Série aérospatiale - Implantation des raccords droits métriques avec bague de sécurité - Dimensions

Luft- und Raumfahrt - Einschraublöcher für gerade Einschraubverschraubungen mit Sicherungsring - Konstruktionsblatt

This European Standard was approved by CEN on 28 October 2005.

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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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This European Standard (EN 2602:2005) 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of an identical text or by endorsement, at the latest by June 2006, and conflicting national standards shall be withdrawn at the latest by June 2006.

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.

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1 Scope

This standard specifies the dimensional characteristics of ports for the adaptors, threaded, with lockring, assembly with elastomer O-ring, for aerospace applications.

This standard applies to all adaptors with lockring whose port end is defined by EN 2603.

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 5855-1, *Aerospace — MJ threads — Part 1: General requirements*

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

EN 2603, *Aerospace series — Port ends for adaptors, threaded, with lockring — Geometric configuration*[1)]

EN 2604, *Aerospace series — 8°30' interface for adaptors, threaded, with lockring — Geometric configuration*

EN 2605, *Aerospace series — 24° interface for adaptors, threaded, with lockring — Geometric configuration*

EN 2606, *Aerospace series — 60° interface for adaptors, threaded, with lockring — Geometric configuration*[1)]

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1) In preparation at the date of publication of this standard

3 Required characteristics

3.1 Cross references between standards EN 2604, EN 2605 and EN 2606

See Table 1.

Table 1

Dimensions in millimetres

Code[a]	Port dimension code	d_1 theoretical	Thread[b] 4H5H	Code[a] 8°30' adaptors EN 2604	Code[a] 24° adaptors EN 2605	Code[a] 60° adaptors EN 2606
05	077	7,75	MJ 6 × 1	05	05	04
06	098	9,80	MJ 8 × 1	06	06	06
08	125	12,55	MJ 10 × 1	08	08	—
10	136	13,65	MJ 12 × 1,25	10	10	08
12	153	15,30	MJ 14 × 1,5	12	12	10
14	170	17,05	MJ 16 × 1,5	14	14	12
16	192	19,20	MJ 18 × 1,5	16	16	14
18	214	21,45	MJ 20 × 1,5	18	—	16
20	231	23,15	MJ 22 × 1,5	20	20	18
22	253	25,30	MJ 24 × 1,5	22	—	20
25	295	29,50	MJ 27 × 1,5	25	25	—
28	320	32,05	MJ 30 × 1,5	28	—	—
32	350	35,05	MJ 33 × 1,5	32	—	—

[a] Corresponds to the pipe nominal outside diameter.

[b] According to ISO 5855-3 except MJ 6 × 1 and the minor diameter which is modified to allow centering of the broaching tool. MJ 6 × 1 according to ISO 5855-1.

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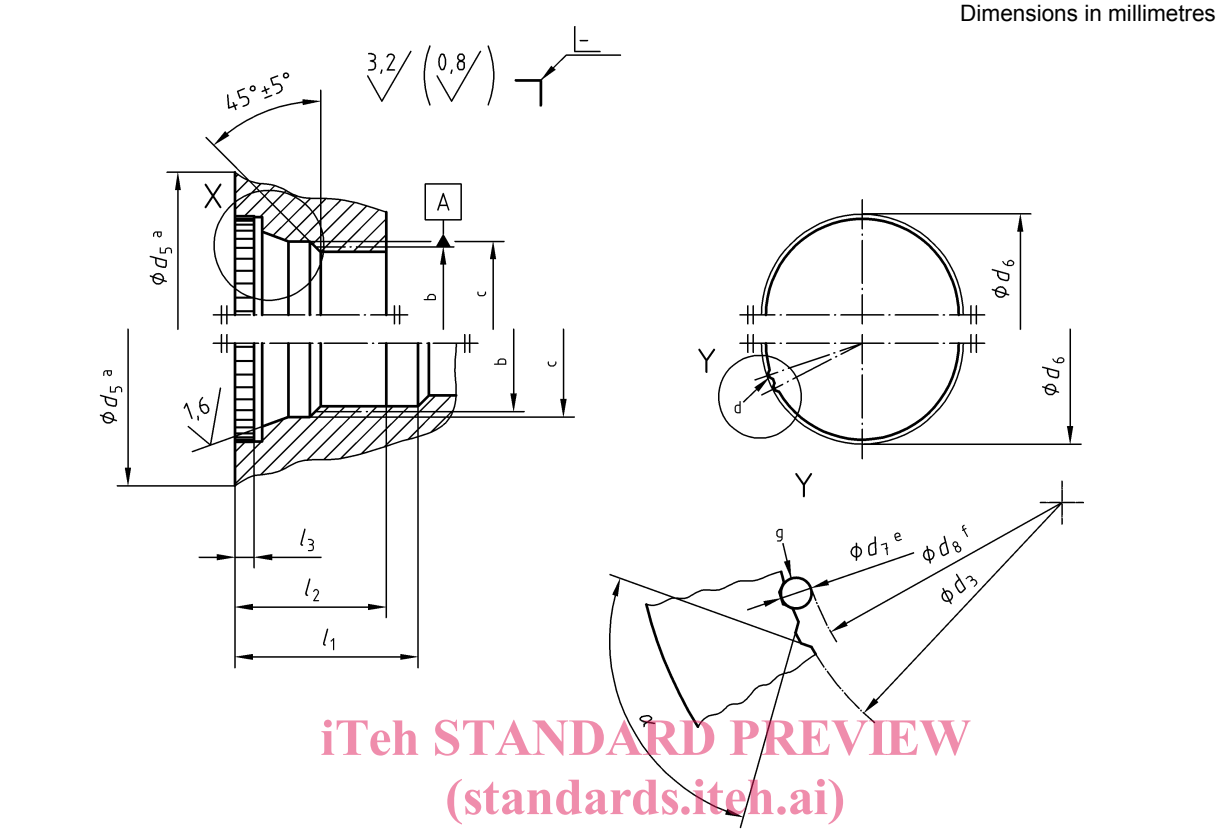
3.2 Configuration — Dimensions

According to Figure 1 and Table 2.

Dimensions in millimetres



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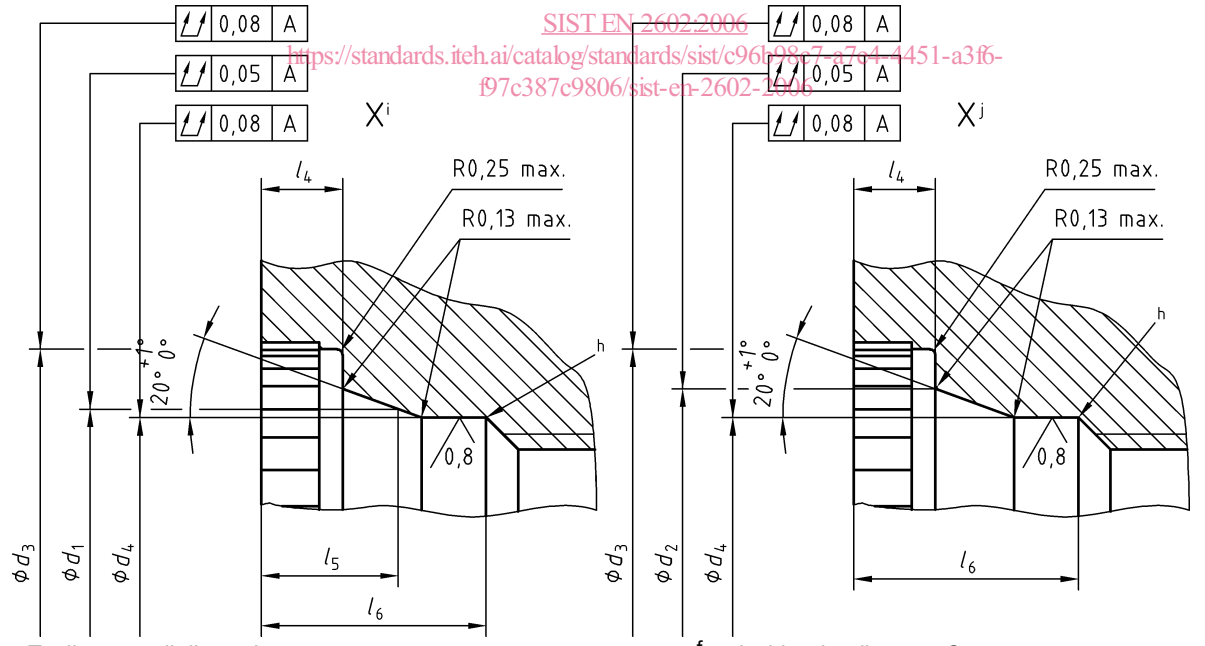

a Tooling overall dimensions
b Pitch diameter
c Thread
d Number of teeth J
e Wire diameter R
f Inside wire diameter S
g Flat on wire if required
h R 0,65 to 0,90
i Dimensions when machining with profile cutter
j Dimensions when machining with boring tool

Figure 1

Table 2

Dimensions in millimetres

Code[a]	Port dimension code	Thread[b] 4H5H	Minor diameter + 0,076 0	d_1 Theo-retical	d_2 + 0,5 0	d_3 + 0,08 0	d_4 + 0,05 0	d_5 min.	d_6 min.	d_7 Theo-retical	d_8 min.	l_1 min.	l_2 min.	l_3 min.	l_4 + 0,25 0	l_5 ± 0,2	l_6 + 0,13 0	α ± 2°	J Number of teeth
05	077	MJ 6 × 1	5,065	7,75	8,85	12,01	7,37	22,00	13,13	1,0478	10,649	18,00	14,50	1,90	2,90	4,85	8,40	97°	23
06	098	MJ 8 × 1	7,065	9,80	10,92	14,02	9,33	25,00	15,01	1,2220	12,104	19,10	15,60	2,30	3,30	5,29	9,00	95°	27
08	125	MJ 10 × 1	9,065	12,55	12,98	17,04	11,34	28,00	18,08	1,2280	15,325	20,40	16,90	2,70	3,80	4,84	9,50	95°	31
10	136	MJ 12 × 1,25	10,821	13,65	14,69	18,64	13,06	30,00	19,76	1,0478	17,302	21,60	17,60	2,70	3,80	5,67	9,50	100°	40
12	153	MJ 14 × 1,5	12,576	15,30	16,29	20,22	14,66	32,00	21,29	1,1280	18,535	22,70	18,20	2,70	3,80	5,60	9,50	94°	38
14	170	MJ 16 × 1,5	14,576	17,05	18,26	21,82	16,64	34,00	22,89	1,1280	20,183	23,40	18,90	2,70	3,80	5,91	9,50	94°	40
16	192	MJ 18 × 1,5	16,576	19,20	20,27	25,40	18,65	38,00	26,72	1,4666	23,418	24,00	19,50	2,70	3,80	5,72	9,50	111°	38
18	214	MJ 20 × 1,5	18,576	21,45	23,02	27,05	20,66	40,00	28,30	1,4666	24,789	25,70	21,20	2,70	3,80	6,40	10,50	94°	43
20	231	MJ 22 × 1,5	20,576	23,15	25,03	29,36	22,68	42,00	30,45	1,2751	27,643	26,40	21,90	2,70	3,80	6,83	10,50	93°	46
22	253	MJ 24 × 1,5	22,576	25,30	27,01	32,54	24,66	46,00	34,01	2,4442	28,457	27,20	22,70	2,70	3,80	6,60	10,50	111°	36
25	295	MJ 27 × 1,5	25,576	29,50	30,05	36,04	27,66	50,00	37,34	1,6297	33,654	28,20	23,70	2,70	3,80	5,00	10,50	93°	47
28	320	MJ 30 × 1,5	28,576	32,05	33,06	39,67	30,68	55,00	41,25	2,0950	36,611	29,20	24,70	2,70	3,80	5,63	10,50	111°	32
32	350	MJ 33 × 1,5	31,576	35,05	36,06	42,06	33,68	57,00	43,33	1,6297	39,687	30,20	25,70	2,70	3,80	5,63	10,50	93°	53

[a] Corresponds to the pipe nominal outside diameter.

[b] According to ISO 5855-3 except MJ 6 × 1 and the minor diameter which is modified to alloy centering of the broaching tool. MJ 6 × 1 according to ISO 5855-1.

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