
**Aeronavtika ű Vmesnik 8°30' za adapterje, z navojem, z zaklepnim obrol' kom ű
Geometrijski nal'rt**

Aerospace series - 8° 30' interface for adaptors, threaded, with lockring - Geometric configuration

Luft- und Raumfahrt - 8° 30'-Anschlusszapfen für gerade Einschraubverschraubungen mit Sicherungsring - Konstruktionsblatt

Série aérospatiale - Interface 8° 30' pour raccords à implanter, filetés, avec bague de sécurité - Configuration géométrique

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ICS:

49.030.99

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ICS 49.030.99

English Version

Aerospace series – 8° 30' interface for adaptors, threaded, with locking - Geometric configuration

Série aérospatiale - Raccords droits métriques avec bague
de sécurité - Interface des raccords à 8° 30' - Dimensions

Luft- und Raumfahrt – 8° 30'-Anschlusszapfen für gerade
Einschraubverschraubungen mit Sicherungsring -
Konstruktionsblatt

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

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 Central Secretariat 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 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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Standard (EN 2604:2005) 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.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard specifies the dimensional characteristics of the 8°30' interface for adaptors, threaded, with lockring, assembly with elastomer O-ring for aerospace applications.

This standard applies to all adaptors, threaded, with lockring, assembled with EN 2607 to EN 2608 and used in fluid systems with a nominal pressure up to 28 000 kPa for which the principle of a metric-size "dynamic beam seal" coupling with a 8°30' conical sealing surface has been selected.

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 2602, *Aerospace series — Ports for adaptors, threaded, with lockring — Geometric configuration*

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

EN 2607, *Aerospace series — O-rings for adaptors, threaded, with lockring — Survey*

EN 2645, *Aerospace series — Lockrings for adaptors, threaded, with lockring — Dimensions*

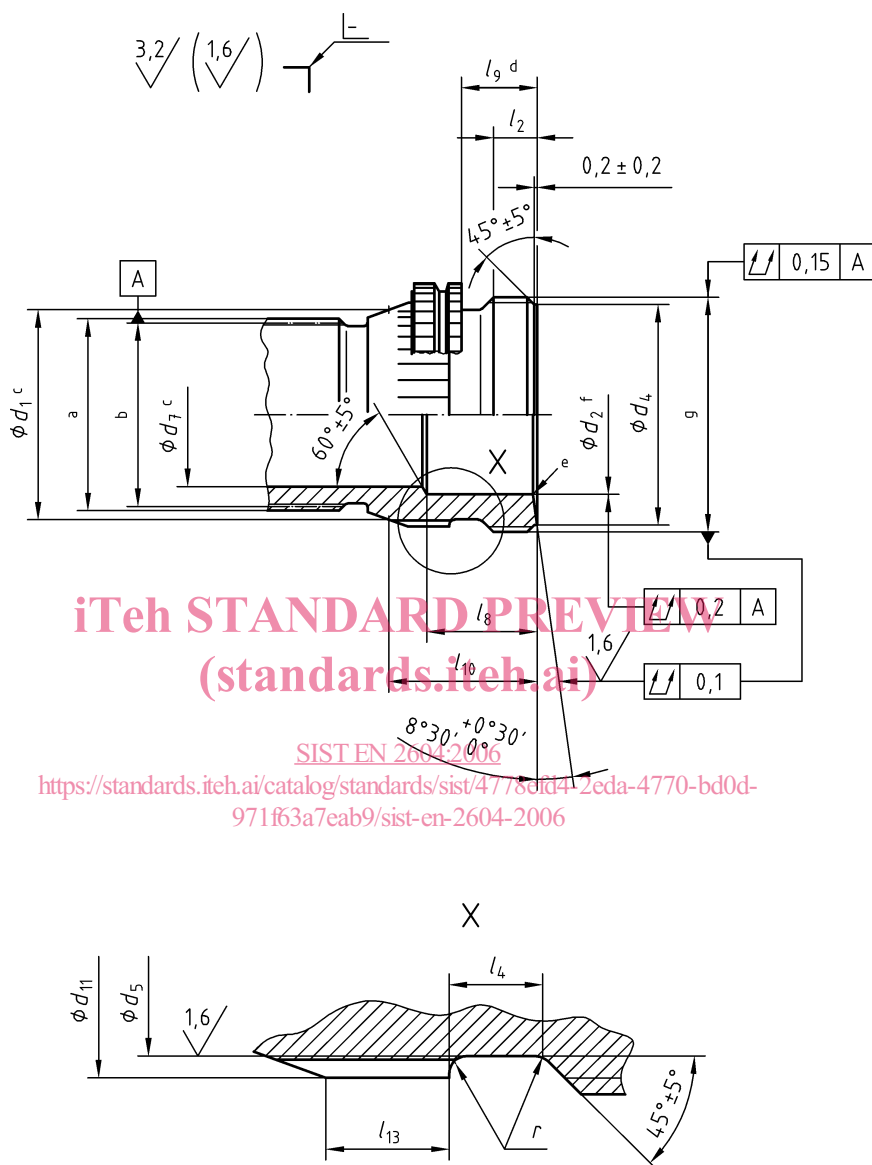
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3 Required characteristics

3.1 Configuration — Dimensions

Dimensions in millimetres



- a Thread B
- b Pitch diameter
- c According to EN 2603
- d Lockring position after installation in port according to EN 2602.
- e R 0,25 max. or break sharp corner
- f When d_2 is less than or equal to d_7 , port diameter d_7 shall be the same over the whole adaptor length and l_8 and d_2 values shall be disregarded.
- g Thread A

Figure 1

Table 1

Dimensions in millimetres

Code ^a	Port dimension code	Thread A ^b	Thread B ^b	d_2		d_4		d_5	d_{11}	l_2	l_4	l_8	l_9	l_{10}	l_{13}	r
		Nut end 4g6g	Port end 4h6h	Nominal	Tolerance	Nominal	Tolerance	0 − 0,20	Nominal	min.	+ 0,10 − 0,20	± 0,20	min.	± 0,25	min.	± 0,40
05	077	MJ 10 × 1	MJ 6 × 1	4,20	+ 0,20 0	8,60	0 − 0,20	8,15	9,37	4,00	3,40	11,00	7,10	15,58	4,25	0,60
06	098	MJ 12 × 1,25	MJ 8 × 1	5,00		10,30	0 0,30	10,20	11,53	5,00	3,90	13,00	8,60	17,95	4,95	0,70
08	125	MJ 14 × 1,5	MJ 10 × 1	6,70		12,00		11,90	13,87	6,15	4,40	15,00	10,40	19,72	5,50	0,80
10	136	MJ 16 × 1,5	MJ 12 × 1,25	8,70		14,00		13,90	15,37	6,15	4,40	15,00	10,40	20,58	5,80	0,80
12	153	MJ 18 × 1,5	MJ 14 × 1,5	10,60		16,00		15,90	17,12	6,15	4,40	15,00	10,40	20,52	5,60	0,80
14	170	MJ 20 × 1,5	MJ 16 × 1,5	11,45		18,00		17,50	18,77	6,15	4,40	15,00	10,40	21,04	6,05	0,80
16	192	MJ 22 × 1,5	MJ 18 × 1,5	13,30	20,00	19,70		20,93	6,15	4,40	15,00	10,40	20,84	5,85	0,80	
18	214	MJ 24 × 1,5	MJ 20 × 1,5	15,30	22,00	21,90		23,85	6,15	4,40	15,00	10,40	21,31	5,55	0,80	
20	231	MJ 27 × 1,5	MJ 22 × 1,5	18,00	25,00	23,65		24,92	6,15	4,40	15,50	10,60	22,32	6,85	0,80	
22	253	MJ 30 × 1,5	MJ 24 × 1,5	20,80	28,00	25,95		27,41	6,15	4,40	15,50	10,60	22,09	6,15	0,80	
25	295	MJ 33 × 1,5	MJ 27 × 1,5	22,40	31,00	29,40		31,47	6,15	4,40	15,50	10,60	20,82	4,70	0,80	
28	320	MJ 36 × 1,5	MJ 30 × 1,5	25,60	34,00	32,15		33,60	6,15	4,40	15,50	10,60	21,47	5,90	0,80	
32	350	MJ 39 × 1,5	MJ 33 × 1,5	28,30	37,00	35,55		37,57	6,15	4,40	15,50	10,60	21,47	4,60	0,80	
^a Corresponds to the pipe nominal outside diameter.																
^b According to ISO 5855-3 except MJ 6 × 1. MJ 6 × 1 according to ISO 5855-1.																