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English Version

Aerospace series - 60° interface for adaptors, threaded, with
lockring - Geometric configuration

Série aérospatiale - Raccords avec cône d'étanchéité 60°
pour raccords droits, filetés, avec bague de sécurité -
Configuration géométrique

Luft- und Raumfahrt - 60°-Anschlusszapfen für gerade
Einschraubverschraubungen mit Sicherungsring -
Konstruktionsblatt

This European Standard was approved by CEN on 13 June 2009.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 2606:2009) 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 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of an identical text or by endorsement, at the latest by January 2010, and conflicting national standards shall be withdrawn at the latest by January 2010.

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1 Scope

This standard specifies the dimensional characteristics of the 60° interface for adaptors, threaded, with lockring, assembly with elastomer O-ring, for aerospace applications.

This standard applies to all adaptors, threaded, with lockring, assembled to EN 2607 and used in fluid systems with a nominal pressure of 28 000 kPa for which a metric-size coupling with a 60° 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 fittings 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.

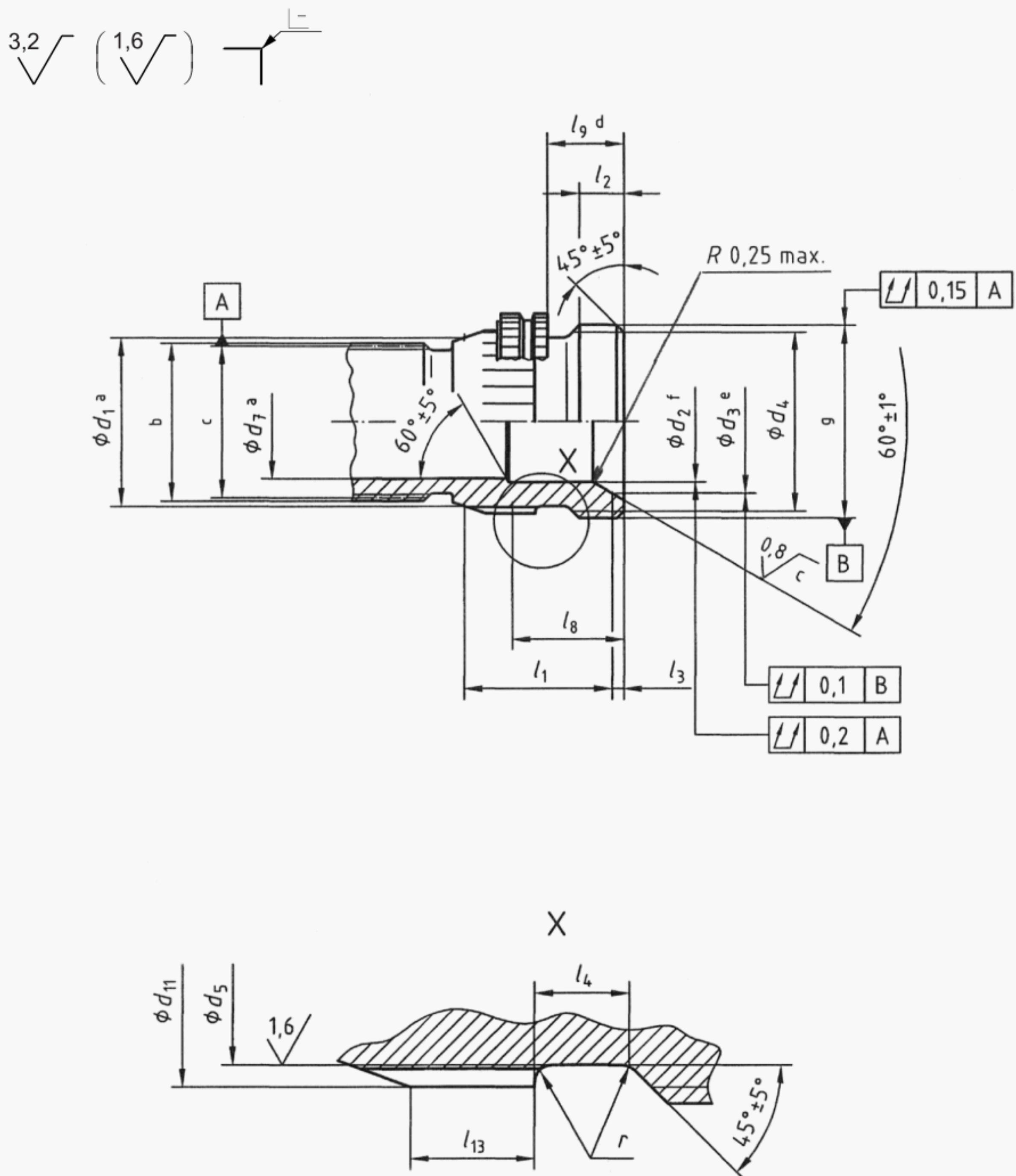
EN 2607, Aerospace series — O-rings for adaptors, threaded, with lockring — Survey.

3 Required characteristics

3.1 Configuration — Dimensions

According to Figure 1 and Table 1.

Dimensions in millimetres



- a According to EN 2603
- b Thread **B**
- c Pitch diameter
- d Lockring position after installation in port according to EN 2602.
- e Contact between this diameter and mating connection shall be continuous.
- 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

Code^a	Port dimension code	Thread A^b Nut end 4g6g	Thread B^b Port end 4h6h	<i>d</i> ₁ Nominal	<i>d</i> ₂	<i>d</i> ₃ theoretical	<i>d</i> ₄ 0 – 0,50	<i>d</i> ₅ 0 – 0,20
05	077	MJ 10 × 1	MJ 6 × 1	9,37	2,50	6,10	8,50	8,15
06	098	MJ 12 × 1,25	MJ 8 × 1	11,53	4,50	7,20	10,00	10,20
08	125	unused						
10	136	MJ 16 × 1,5	MJ 12 × 1,25	15,37	6,50	10,00	14,00	13,90
12	153	MJ 18 × 1,5	MJ 14 × 1,5	17,12	8,50	12,00	15,90	15,90
14	170	MJ 20 × 1,5	MJ 16 × 1,5	18,77	10,50	14,00	17,90	17,50
16	192	MJ 22 × 1,5	MJ 18 × 1,5	20,93	12,50	16,00	19,90	19,70
18	214	MJ 24 × 1,5	MJ 20 × 1,5	23,85	14,50	18,00	21,90	21,90
20	231	MJ 27 × 1,5	MJ 22 × 1,5	24,92	16,50	20,00	25,00	23,65
22	253	MJ 30 × 1,5	MJ 24 × 1,5	27,41	18,50	23,20	28,00	25,95
25	295	unused						
28	320	unused						
32	350	unused						

Code^a	Port dimension code	<i>l</i> ₁ + 0,5 0	<i>l</i> ₂ min.	<i>l</i> ₃ + 0,20 0	<i>l</i> ₄ + 0,10 – 0,20	<i>l</i> ₈ ± 0,20	<i>l</i> ₉ min.	<i>l</i> ₁₃ min.	<i>r</i> ± 0,40
05	077	14,53	4,00	0,90	3,40	—	7,10	4,25	0,60
06	098	16,90	5,00	0,90	3,90	12,85	8,60	4,95	0,70
08	125	unused							
10	136	19,23	6,15	1,20	4,40	15,05	10,40	5,80	0,80
12	153	18,77	6,15	1,60	4,40	15,05	10,40	5,60	0,80
14	170	19,39	6,15	1,60	4,40	15,05	10,40	6,05	0,80
16	192	19,09	6,15	1,60	4,40	—	10,40	5,85	0,80
18	214	19,56	6,15	1,60	4,40	15,05	10,40	5,55	0,80
20	231	20,57	6,15	1,60	4,40	16,00	10,60	6,85	0,80
22	253	19,94	6,15	2,00	4,40	16,00	10,60	6,15	0,80
25	295	unused							
28	320	unused							
32	350	unused							

^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.

3.2 Surface roughness

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

4 Designation

EXAMPLE

