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**Aerospace series — Pipe coupling  
8°30' — Thread end — Geometric  
configuration**

*Série aérospatiale - Système de raccordement 8°30' - Extrémité du  
raccord - Configuration géométrique*

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Published in Switzerland

# Contents

	Page
Foreword .....	iv
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Required characteristics</b> .....	<b>1</b>
4.1 Configuration — Dimensions .....	1
4.1.1 General .....	1
4.1.2 Form B .....	1
4.1.3 Form C to L .....	1
4.2 Surface roughness .....	1
<b>5 Designation</b> .....	<b>8</b>

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by the Aerospace and Defence Industries Association of Europe – Standardization (ASD-STAN) as EN 3273:2010 and was adopted by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*.

# Aerospace series — Pipe coupling 8°30' — Thread end — Geometric configuration

## 1 Scope

This document specifies the characteristics of the thread end for 8°30' pipe couplings, nominal pressure up to 28 000 kPa, for aerospace applications.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

EN 2491, *Aerospace series — Molybdenum disulphide dry lubricants — Coating methods*

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

ISO 8788, *Aerospace — Nuts, metric — Tolerances of form and position*

## 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

## 4 Required characteristics

### 4.1 Configuration — Dimensions

#### 4.1.1 General

Dimensions are in millimetres.

Dimensions and tolerances apply before lubrication. Threads and sealing face shall be lubricated according to EN 2491.

#### 4.1.2 Form B

According to [Figure 1](#) and [Table 1](#).

#### 4.1.3 Form C to L

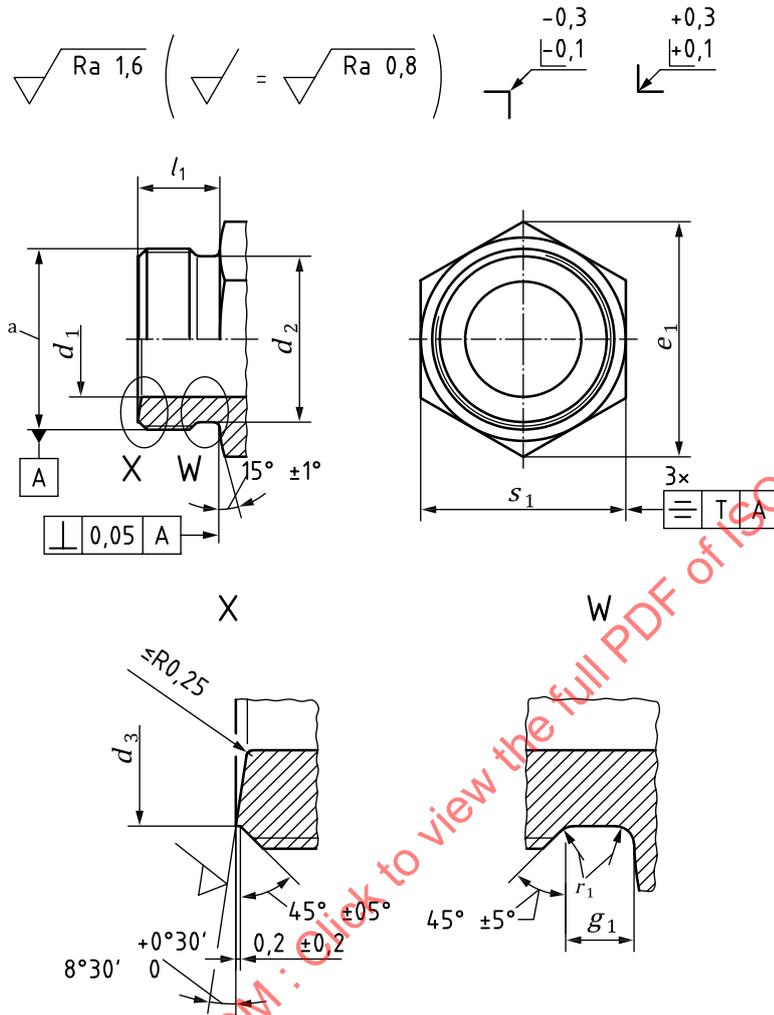
According to [Figures 2](#) to [10](#) and [Tables 1](#) and [2](#).

### 4.2 Surface roughness

According to [Figures 1](#) to [10](#).

The O-ring sealing groove shall not contain any radial tool marks.

Dimensions in millimetres



Key  
a Thread.

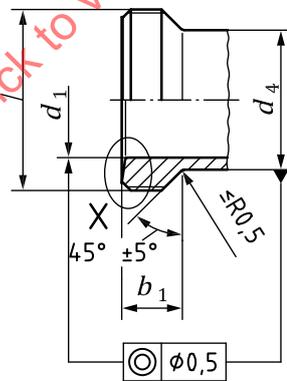
Figure 1 — Form B

Table 1

Code <sup>a)</sup>	Thread <sup>b)</sup> 4g6g	$d_1$ H11	$d_2$ 0 -0,2	$d_3$		$e_1$ min.	$g_1$ 0 -0,2	$l_1$ $\pm 0,2$	$r_1$ 0 -0,2	$s_1$ h13	T <sup>c)</sup>			
				nom.	tol.									
04	MJ8 × 1	3,2	6,5	6,6	0 -0,2	11,05	2	7,3	0,5	10	0,36			
05	MJ10 × 1	4,2	8,5	8,6		12,12				11				
06	MJ12 × 1,25	5	10,2	10,3	0 -0,3	14,38	2,5	9	0,6	13	0,43			
08	MJ14 × 1,5	6,7	12	12		17,77				16				
10	MJ16 × 1,5	8,7	14	14		18,90				17				
12	MJ18 × 1,5	10,6	16	16		21,10				19				
14	MJ20 × 1,5	11,4	18	18		24,49				22	0,52			
16	MJ22 × 1,5	13,3	20	20		26,75				24				
18	MJ24 × 1,5	15,3	22	22		30,14				3	10,8	0,8	27	0,52
20	MJ27 × 1,5	18	25	25		33,53				30				
22	MJ30 × 1,5	20,8	28	28		35,72				32	0,62			
25	MJ33 × 1,5	22,4	31	31		37,72				34				
28	MJ36 × 1,5	25,6	34	34	45,63	41								
32	MJ39 × 1,5	28,3	37	37	45,63	41								

a) Corresponds to the pipe nominal outside diameter.  
 b) According to ISO 5855-3.  
 c) According to ISO 8788.

X as form B

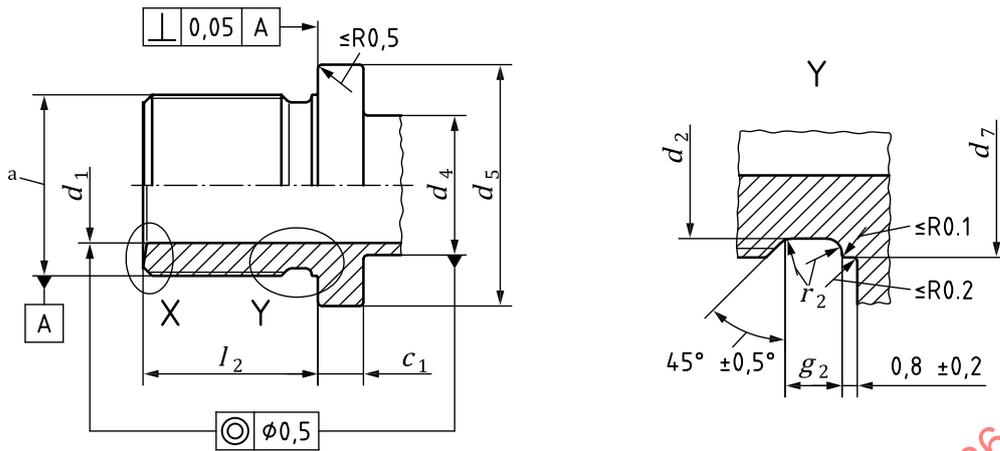


Key

a Thread.

Figure 2 — Form C

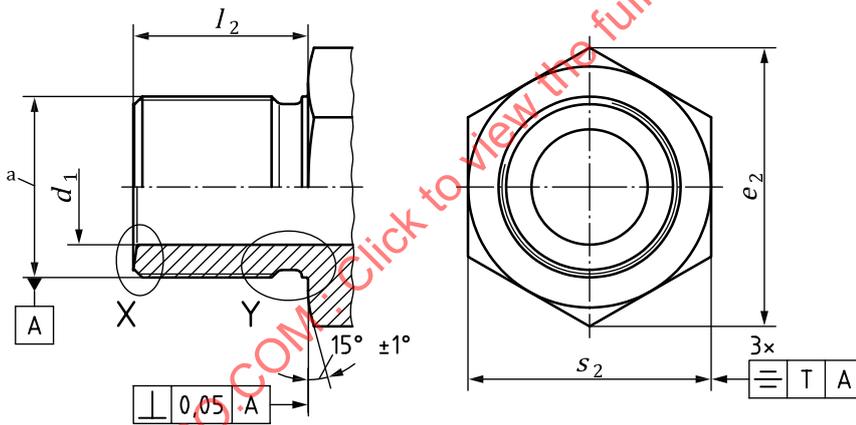
X as form B



Key  
a Thread.

Figure 3 — Form D

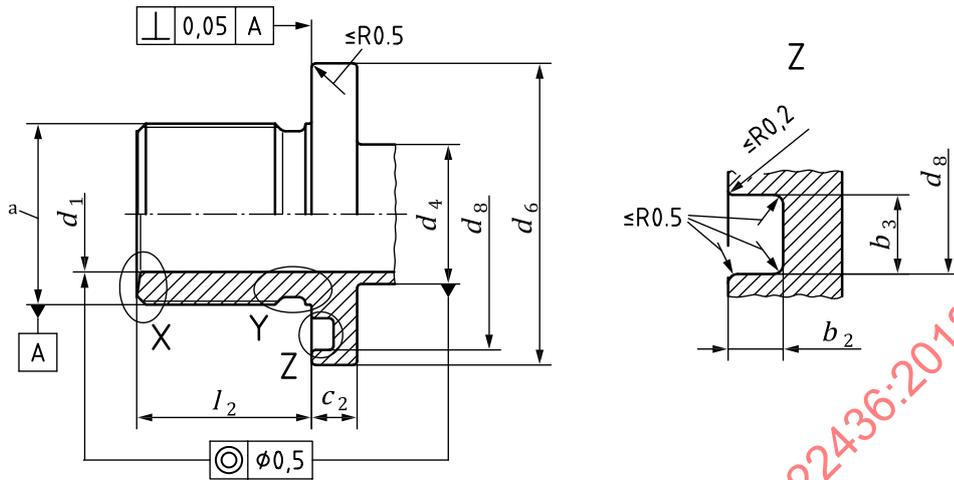
X as form B  
Y as form D



Key  
a Thread.

Figure 4 — Form E

X as form B  
Y as form D

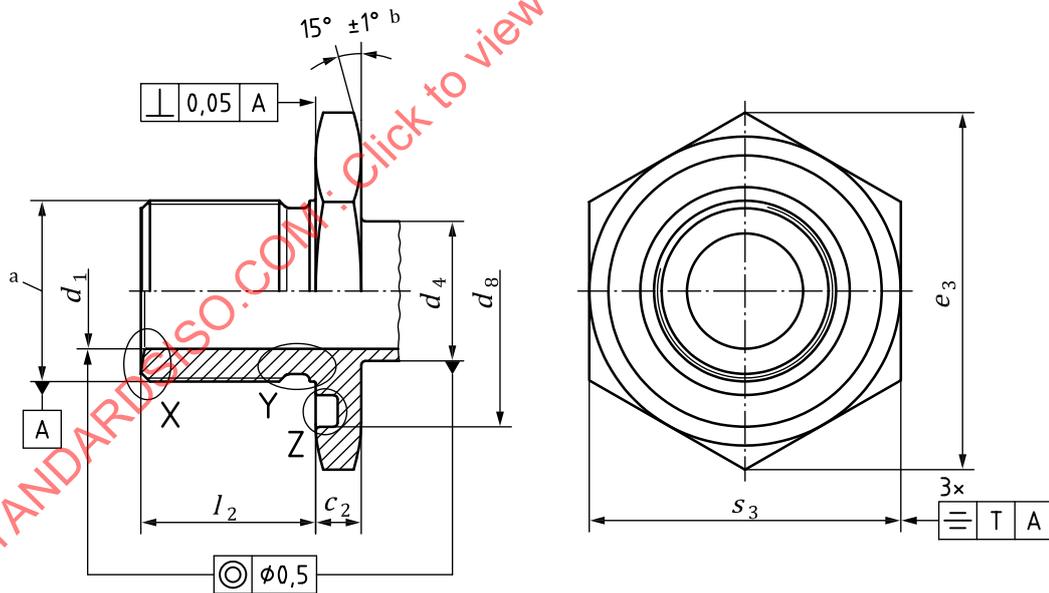


**Key**

a Thread.

Figure 5 — Form F

X as form B  
Y as form D  
Z as form F



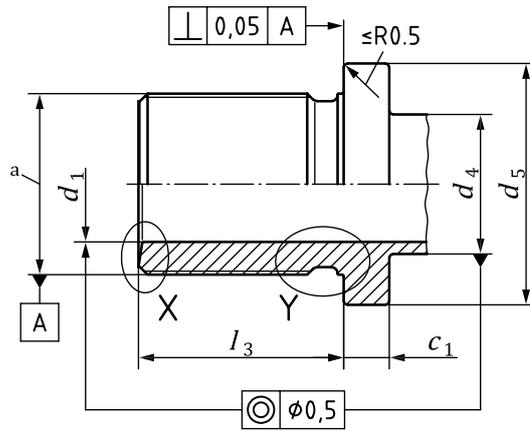
**Key**

a Thread.

b On both faces.

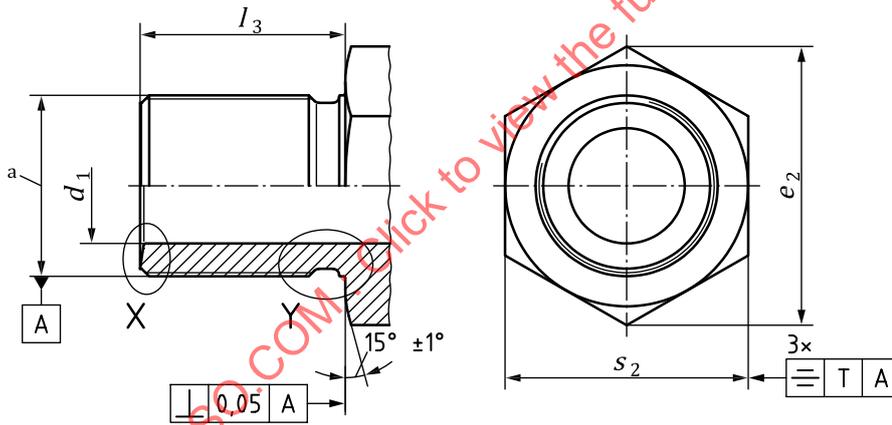
Figure 6 — Form G

X as form B  
Y as form D



Key  
a Thread.

Figure 7 — Form H

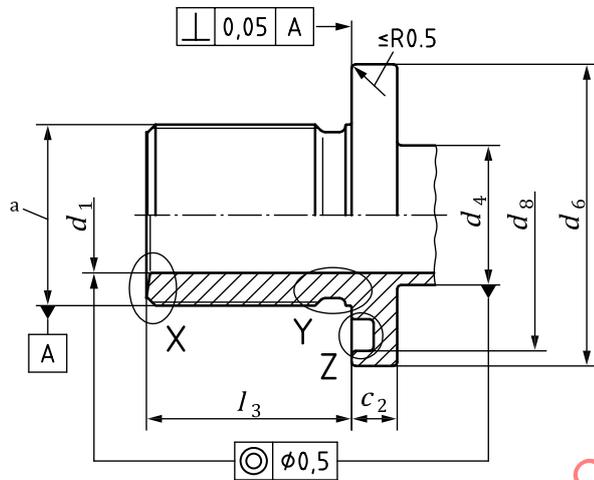


X as form B  
Y as form D

Key  
a Thread.

Figure 8 — Form J

X as form B  
 Y as form D  
 Z as form F

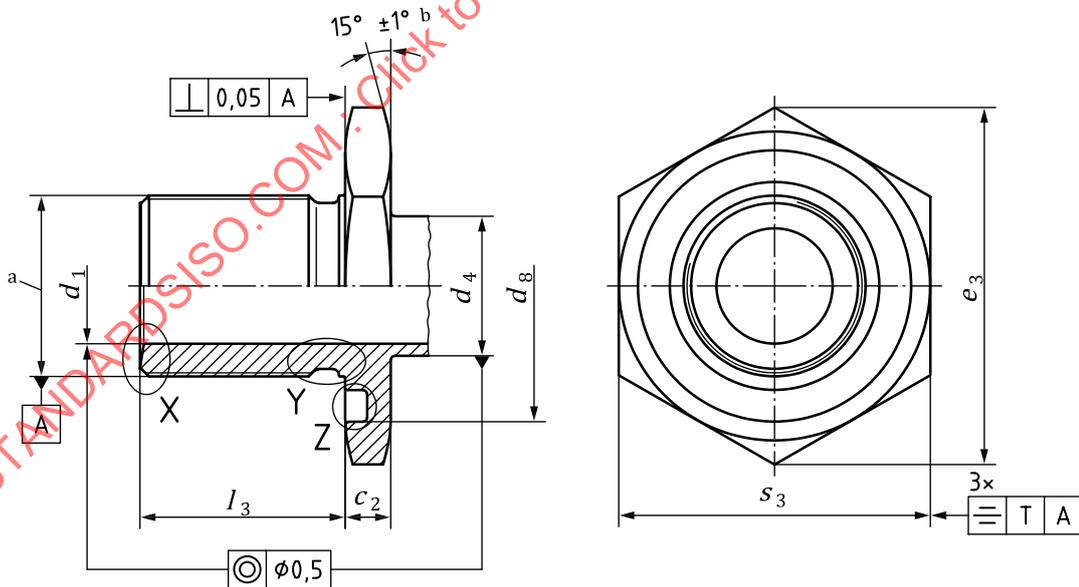


**Key**

- a Thread.
- b On both faces.

**Figure 9 — Form K**

X as form B  
 Y as form D  
 Z as form F



**Key**

- a Thread.
- b On both faces.

**Figure 10 — Form L**