

BS EN 3274:2010



BSI Standards Publication

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

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The UK participation in its preparation was entrusted to Technical Committee ACE/69, Aerospace hydraulic systems, fluids and components.

A list of organizations represented on this committee can be obtained on request to its secretary.

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EUROPEAN STANDARD

**EN 3274**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2010

ICS 49.080

Supersedes EN 3274:2001

English Version

**Aerospace series - Pipe coupling 8°30' - Thread end -  
Geometric configuration**Série aérospatiale - Système de raccordement 8°30' -  
Extrémité de filetage - Configuration géométriqueLuft- und Raumfahrt - Rohrverschraubung 8°30' -  
Gewindeende - Konstruktionsblatt

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Ref. No. EN 3274:2010: E

## Foreword

This document (EN 3274:2010) 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.

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## 1 Scope

This standard 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 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.

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 Required characteristics

### 3.1 Configuration – Dimensions

#### 3.1.1 General

Dimensions are in millimetres.

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

#### 3.1.2 Form B

According to Figure 1 and Table 1.

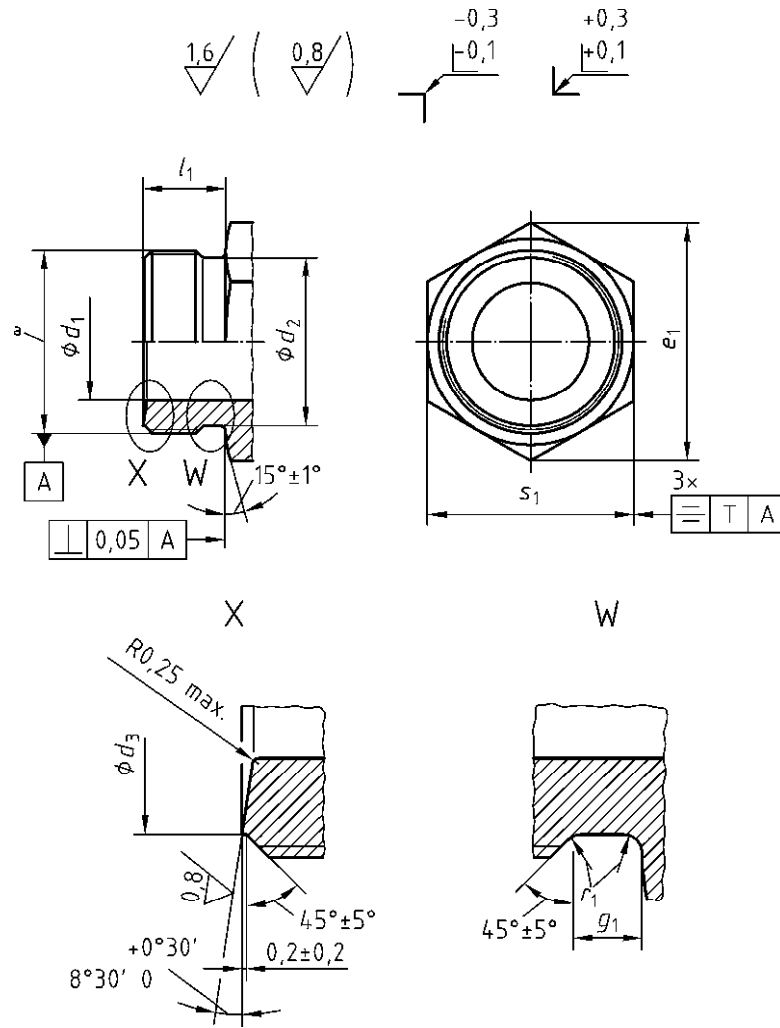
#### 3.1.3 Forms C to L

According to Figures 2 to 10 and Tables 1 and 2.

### 3.2 Surface roughness

According to Figures 1 to 10.

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



a Thread

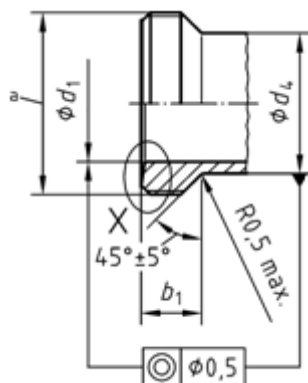
Figure 1 — Form B

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	
16	MJ22×1,5	13,3	20	20		26,75				24	0,52
18	MJ24×1,5	15,3	22	22		30,14				27	
20	MJ27×1,5	18	25	25		33,53				30	
22	MJ30×1,5	20,8	28	28		35,72				32	
25	MJ33×1,5	22,4	31	31		37,72				34	
28	MJ36×1,5	25,6	34	34	45,63	41	0,62				
32	MJ39×1,5	28,3	37	37	45,63	41					

<sup>a</sup> Corresponds to the pipe nominal outside diameter.  
<sup>b</sup> According to ISO 5855-3.  
<sup>c</sup> According to ISO 8788.

X as form B

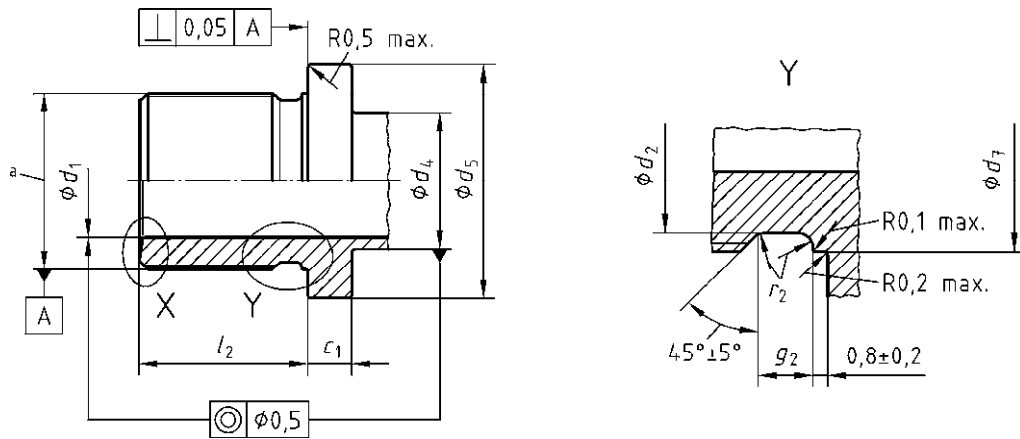


<sup>a</sup> Thread

Figure 2 — Form C



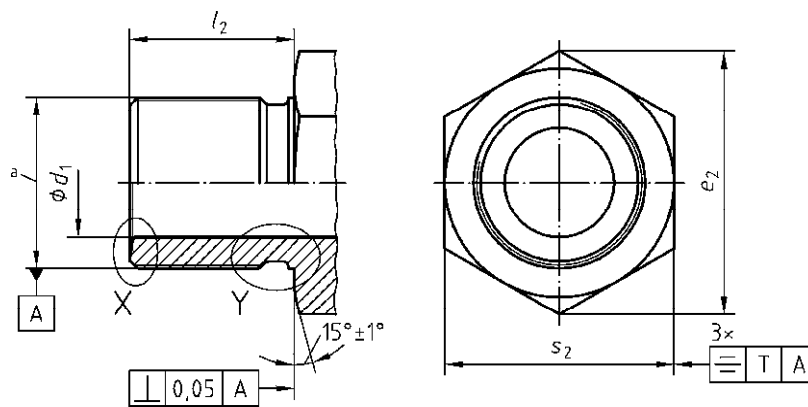
X as form B



a Thread

Figure 3 — Form D

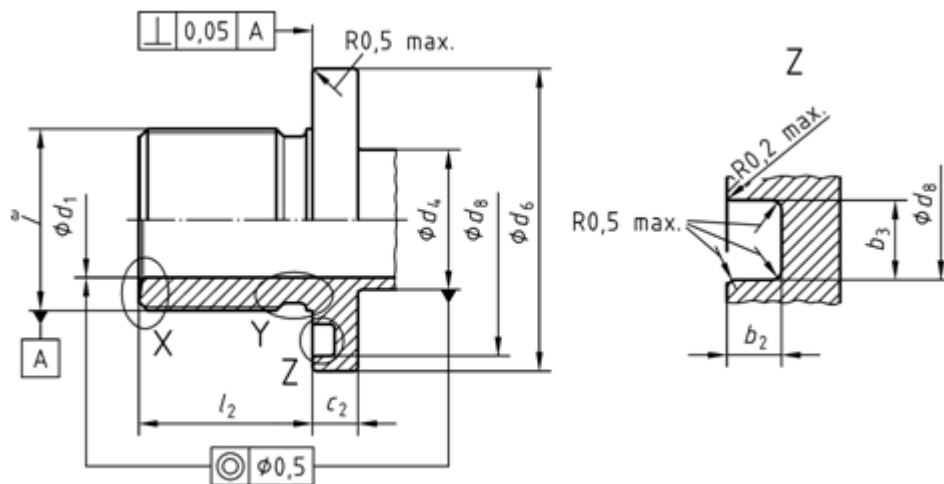
X as form B  
Y as form D



a Thread

Figure 4 — Form E

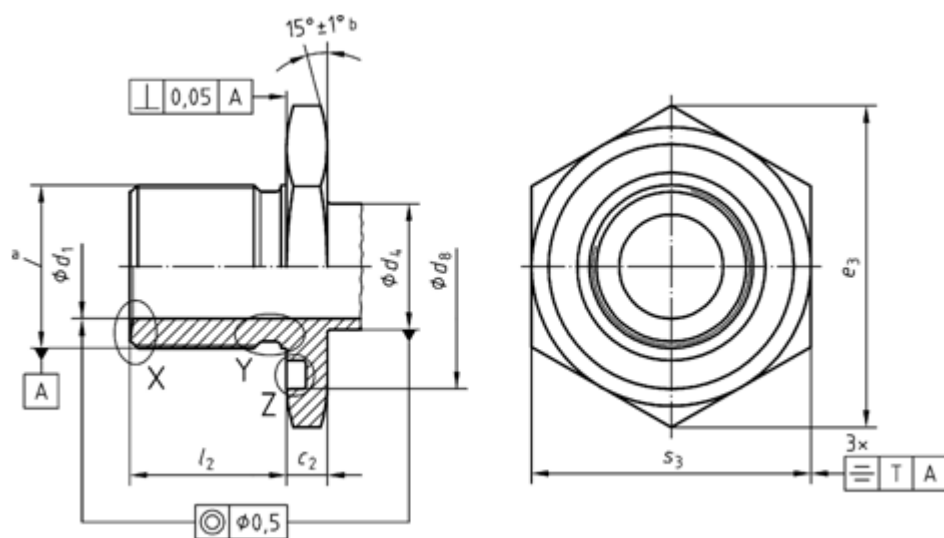
X as form B  
Y as form D



a Thread

Figure 5 — Form F

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



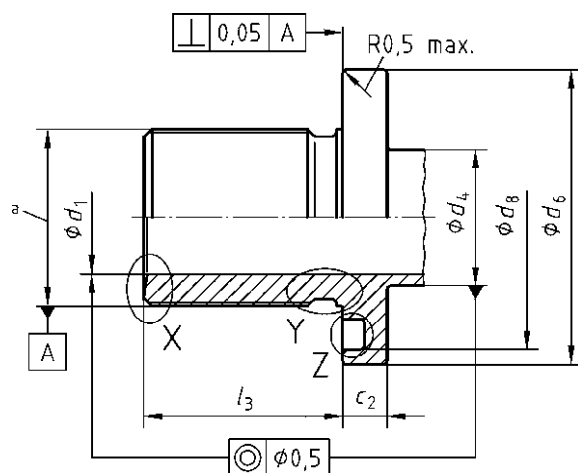
a Thread

b On both faces

Figure 6 — Form G



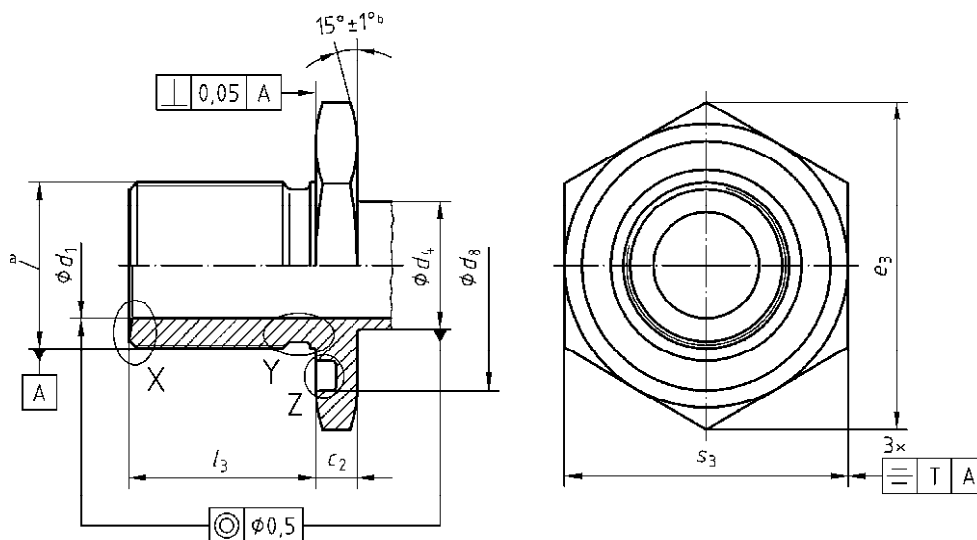
X as form B  
Y as form D  
Z as form F



a Thread

Figure 9 — Form K

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



a Thread

b On both faces

Figure 10 — Form L

Table 2

Code <sup>a</sup>	$b_1$	$b_2$	$b_3$	$c_1$	$c_2$	$d_4$		$d_5$	$d_6$	$d_7$	$d_8$	$e_2$	$e_3$	$g_2$	$l_2$	$l_3$	$r_2$	$s_2$	$s_3$
	+0,3 0	0 -0,1	$\pm 0,25$	$\pm 0,2$	$\pm 0,2$	nom.	tol.	0 -0,3	0 -0,2	0 -0,2	$\pm 0,1$	min.	min.	+0,3 0	$\pm 0,2$	$\pm 0,2$	+0,2 0	h13	h13
04	6			4	5	5,5	+0,8 0	12	21	8	19	13,2	24,5	2	14,5	18,5	0,5	12	22
05				6,5		14		23	10	21	15,5	26,7	15,5		19,5	14		24	
06	7			5	6	7,5		17	27	12	24	18,9	30,1	2,5	18	22	0,6	17	27
08	9,5					19		30	14	26	21,1	33,5	22	25	19	30			
10		2,9	4,2	5	6	11,5		22	32	16	28	24,5	35,7		23	27	0,8	22	32
12						13,5		24	34	18	30	26,7	37,7					24	34
14				6	7	14,5		27	36	20	32	30,1	39,9					27	36
16						16,5		30	38	22	34	33,5	45,6					30	41
18	8			6	7	18,5	+0,2 0	32	40	24	36	35,7	3	23	27	0,8	32	41	
20	22					34		43	27	39	37,7	51,2					34	46	
22				7	7	25		36	46	30	42	39,9						36	46
25						27		41	50	33	45	45,6						55,8	41
28				7	7	30,5		46	52	36	48	51,2	61,3	24,5	28,5			46	55
32						33,5		50	55	39	51	55,8						50	55

<sup>a</sup> Corresponds to the pipe nominal outside diameter.

## 4 Designation

EXAMPLE

**EN3274C05**

Number of this standard \_\_\_\_\_

Form (see Figures 1 to 10) \_\_\_\_\_

Code (see Table 1) \_\_\_\_\_

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