
**Aerospace — Fork-ends, in steel, threaded,
for rolling bearings, for aircraft control wire
rope — Dimensions and loads**

*Aéronautique et espace — Embouts à chape, filetés, en acier, pour
roulements à rouleaux, pour câbles de commande d'aéronefs —
Dimensions et charges*

STANDARDSISO.COM : Click to view the full PDF of ISO 9758:2000



PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

STANDARDSISO.COM : Click to view the full PDF of ISO 9758:2000

© ISO 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 9758 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 12, *Mechanical system parts*.

Annex A forms a normative part of this International Standard.

STANDARDSISO.COM : Click to view the full PDF of ISO 9758:2000

Aerospace — Fork-ends, in steel, threaded, for rolling bearings, for aircraft control wire rope — Dimensions and loads

1 Scope

This International Standard specifies the characteristics of fork-ends for rolling bearings, in either low alloy steel or corrosion-resistant steel, for aircraft control wire rope.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 2020-1:1997, *Aerospace — Preformed flexible steel wire rope for aircraft controls — Part 1: Dimensions and loads.*

ISO 5855-2:1999, *Aerospace — MJ threads — Part 2: Limit dimensions for bolts and nuts.*

ISO 8074:1985, *Aerospace — Surface treatment of austenitic stainless steel parts.*

ISO 9761:2000, *Aerospace — Locking clips, in corrosion-resistant steel, for aircraft control wire rope turnbuckles — Dimensions.*

ISO 10955:1999, *Aerospace — End fittings and turnbarrels for aircraft control wire rope — Technical specification.*

ISO 13715:2000, *Technical drawings — Edges of undefined shape — Vocabulary and indication on drawings.*

EN 2133:1998, *Aerospace series — Cadmium plating of steels with specified tensile strength $\leq 1\,450$ MPa, copper, copper alloys and nickel alloys.*

EN 2207:—¹⁾, *Aerospace series — Steel FE-PL43S — $900\text{ MPa} \leq R_m \leq 1\,100\text{ MPa}$ — Hand and die forging $D_e \leq 40\text{ mm}$.²⁾*

EN 3487:—¹⁾, *Aerospace series — Steel FE-PL 3601 — Softened — $500\text{ MPa} \leq R_m \leq 700\text{ MPa}$ — Bars for machining — $D_e \leq 100\text{ mm}$.²⁾*

SAE AMS 2431/6A, *Peening Media, Glass Shot.*

SAE AMS 5643P, *Steel, Corrosion Resistant, Bars, Wire, Forgings, Tubing, and Rings, 16Cr 4.0Ni 0.30(Cb+Ta) 4.0Cu, Solution Heat Treated, Precipitation Hardenable.*

SAE AMS 6370K, *Steel Bars, Forgings and Rings, 0.95Cr 0.20Mo (0.28-0.33C).*

QQ-P-416F, *Plating, Cadmium (Electrodeposited).³⁾*

¹⁾ To be published.

²⁾ AECMA.

³⁾ May be obtained from: DODSSP Customer Service, Defense Printing Service Detachment Office, Building 4D, 700 Robbins Ave., Philadelphia, PA 19111-5094, USA.

3 Configuration, dimensions, loads and masses

Configuration, dimensions, loads and masses shall be in accordance with Figure 1 and Table 1.

4 Material

Code A: corrosion-resistant steel (in accordance with annex A).

Code B: low alloy steel (in accordance with annex A).

5 Surface treatment

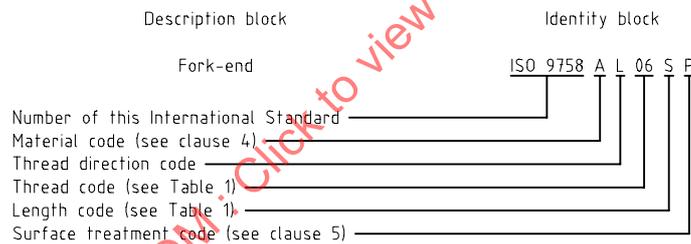
Corrosion-resistant steel: passivation in accordance with ISO 8074 (code P) or peening (code G) (in accordance with annex A).

Low alloy steel: cadmium plating in accordance with annex A.

6 Designation

Each fork-end in accordance with this International Standard shall be designated as shown in the following example.

EXAMPLE



Where the following codes are applied for the thread direction:

- code R: right-hand thread;
- code L: left-hand thread.

7 Marking

The marking position shall be in accordance with Figure 1.

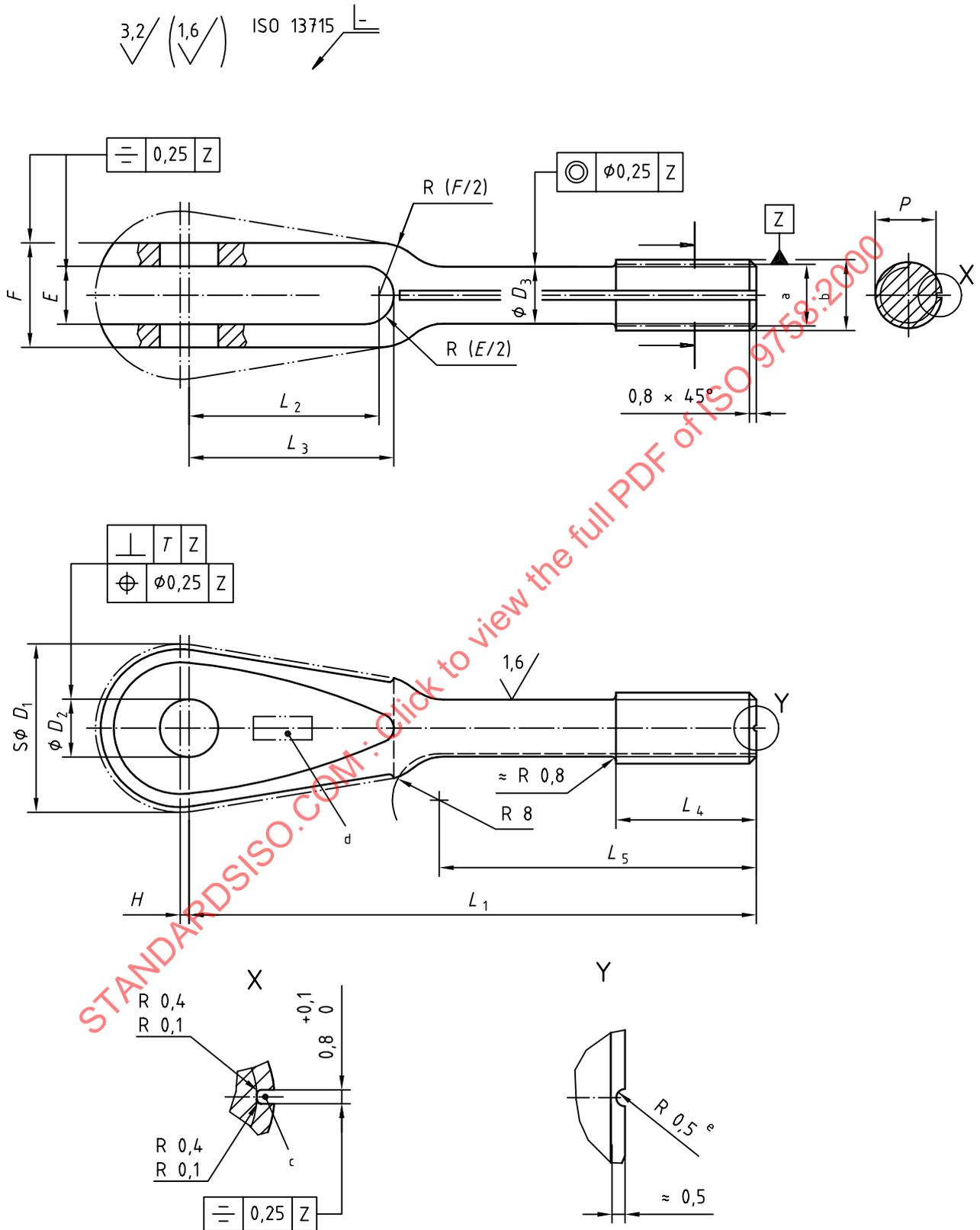
In addition to the manufacturer's own marking, each end-fitting in accordance with this International Standard shall be marked using the identity block specified in clause 6.

The marking method is at the manufacturer's option.

8 Technical specification

In accordance with ISO 10955.

Dimensions in millimetres
Surface roughness in micrometres



- a Pitch diameter
- b Thread
- c Slot for locking clip according to ISO 9761

- d Marking
- e Notch for thread on left only

Figure 1

Table 1

Dimensions in millimetres

Thread ^a		D_1^b	D_2	D_3		E	F	H	L_1		L_2	L_3	L_4	L_5	P		T	Mass g/piece	Minimum breaking load ^c	Nominal diameter of wire rope ^c				
Code	Designation	+0,60 -0,25	H8	nom.	lim. dev.	H11	h11	+0,25 0	Code	± 0,5	± 0,5		± 0,5	± 0,5	min.	max.		≈	kN					
04	MJ4 × 0,7 – 4h6h	19	5	2,9	0 -0,1	7	12	1	S	57	25	27	8	23	3,26	3,36	0,1	19,9	2,15	1,6				
05	MJ5 × 0,8 – 4h6h			3,8	L				62	10			27,5	4,18	4,33	21,4		4,45	2,4					
06	MJ6 × 1 – 4h6h			4,6					75	41,5			12	33,5	5,1	5,27		31,2	8,9	3,2				
				07	MJ7 × 1 – 4h6h				5,6	0 -0,15				8	15	S		68	49,5	33,8	20	39	6,09	6,27
L	84												57			39,8								
08	MJ8 × 1 – 4h6h			25	8				6,6	9			16	1,5	S	75		26	28	14	39	6,09	6,27	0,2
10	MJ10 × 1,25 – 4h6h	7,8	9	16	S	85	31	33	16		44	7,1			7,27	64,5	24,9	5,6						
					L	93	20	55	8,93		9,11													
12	MJ12 × 1,25 – 4h6h	29	10	9,8	10	18	S	97	32,5	35	24	55,5	10,91	11,11	92,9	31,2	6,4							

^a In accordance with ISO 5855-2.

^b A fault in the shape of the spherical surface of radius $D_1/2$ is permitted within the limits of the limit deviation value for D_1 .

^c In accordance with ISO 2020-1.

STANDARDSISO.COM : Click to view the full PDF of ISO 9758:2000