SLOVENSKI STANDARD
SIST EN 2356:2001

01-januar-2001

Aerospace series - Fork-ends threaded, control cable for rolling bearings in corrosion resisting steel - Dimensions and loads

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Luft- und Raumfahrt - Spannschrauben mit Gabel für Kugellager aus korrosionsbeständigem Stahl - Maße und Belastungen

Série aérospatiale - Embouts a chape de tendeurs pour roulements en acier résistant a la corrosion - Dimensions et charges

Ta slovenski standard je istoveten z: EN 2356:1988

ICS:

49.030.99 Drugi vezni elementi Other fasteners

SIST EN 2356:2001 en

EUROPEAN STANDARD

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EN 2356

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Key words : Aircraft industry, flight control, flexible cable, cable tensioner, cable-end, dimensions, breaking loads.

English version

Aerospace series
Fork-ends threaded, control cable for rolling bearings in corrosion resisting steel
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Embouts à chape de tendeurs pour roulements en acier résistant à la corrosion
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Maße und Belastungen

This European Standard was accepted by CEN on 1988-03-17. CEN members are bound to comply with the requirements of CEN 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 CEN 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 CEN Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat : Rue Bréderode 2, B—1000 Bruxelles

Ref. Nr EN 2356 : 1988 E

Brief History

This draft European Standard has been prepared by the European Association of Aerospace Manufacturers (AECMA).

After enquiries and votes carried out in accordance with the rules of this Association, this draft has successively received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

In accordance with the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

1 Scope and field of application

This standard specifies the characteristics of threaded fork-ends for rolling bearings as defined by EN 2012, EN 2013 and EN 2014, in corrosion resisting steel, intended for the turnbuckles of aircraft control cables.

2 References

ISO 2020, Aerospace - Mechanical system parts - Preformed flexible steel wire rope for aircraft controls - Technical specification.

ISO 5855/1, Aerospace construction - MJ threads - Part 1 : Basic profile

ISO 5855/2, Aerospace construction - MJ threads - Part 2 : Dimensions for bolts and nuts

EN 2012, Bearings - airframe rolling, rigid, single row ball bearings, in steel - Diameter series 0 and 2 - Dimensions and loads - Aerospace series

EN 2013, Bearings - airframe rolling, rigid, single row ball bearings, in steel, cadmium plated - Diameter series 0 and 2 - Dimensions and loads - Aerospace series

EN 2014, Bearings - airframe rolling, rigid, single row ball bearings, in corrosion resisting steel - Diameter series 0 and 2 - Dimensions and loads - Aerospace series

EN 2363, Aerospace series - Locking clips for turnbuckles of control cables - Dimensions

EN 2462, Steel FE-PA13 - Softened - Bars D_e < 100 mm - Aerospace series

EN 2516, Aerospace series - Passivation of corrosion resistant steels 1)

EN 2569, Aerospace series - Control cable fittings and turnbarrels - Technical specification 1).

3 Required characteristics

3.1 Dimensions - Tolerances - Loads - Mass

The configuration shall correspond to the figure and the dimensions shall conform to the values given in the figure and the table.

3.2 Surface roughness

See figure.

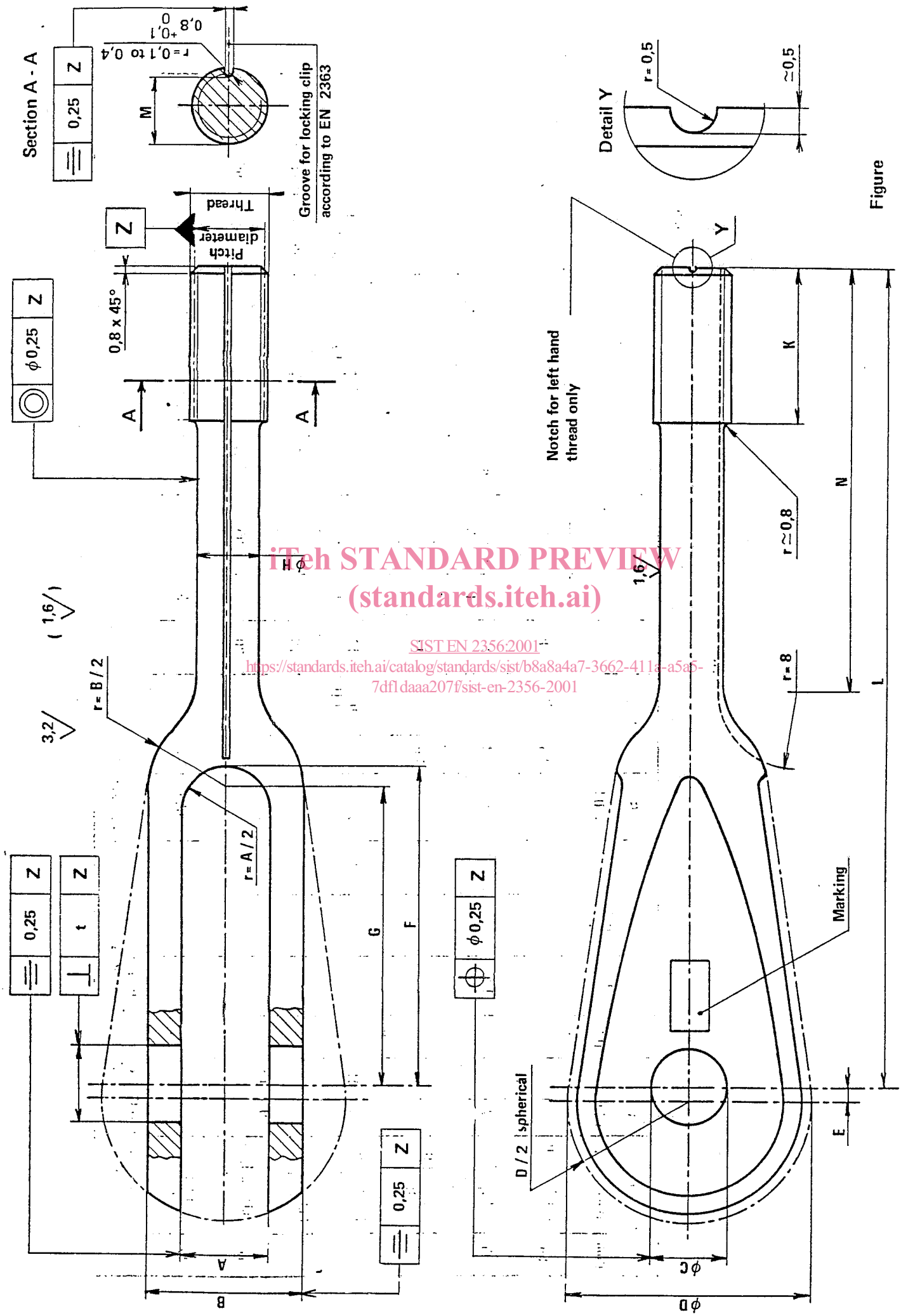
3.3 Material

Steel EN 2462.

3.4 Surface treatment

Passivation EN 2516.

1) In preparation



Figure

Table

Dimensions in millimetres

Thread 1) Code	Thread 1) Designation	A H 11	B ±0,1	C H 8	D + 0,60 − 0,25	E + 0,25 0	F + 0,5 0	G ± 0,5	H	H 0 − 0,1	K ± 0,5	L Code	L Dimensions ± 0,5	M min.	M max.	N ±0,5	t	Mass ≈ g	Minimum breaking loads kN 2)	Nominal diameter of cable used
04	MJ 4 x 0,70 4h6h	7	12	5	19	1	27	25	2,9	0 − 0,15	8	S	57	3,25	3,36	23	0,10	19,9	2,15	1,6
05	MJ 5 x 0,80 4h6h								3,8		10	S	62	4,16	4,33	27,5		21,4	4,45	2,4
												L	75			41,5		22,6		
06	MJ 6 x 1,00 4h6h		14	6					4,6		12	S	68	5,08	5,27	33,5		31,2	8,90	3,2
												L	84			49,5		33,3		
07	MJ 7 x 1,00 4h6h	8	15		20		28	26	5,6		14	S	75	6,08	6,27	39	0,20	30,4	12,45	4
												L	93			57		39,8		
08	MJ 8 x 1,00 4h6h	9	16	8	25	1,5	33	31	6,6		16	S	85	7,08	7,27	44		55,3	18,60	4,8
10	MJ10 x 1,25 4h6h								7,8		20	S	95	8,98	9,19	55		64,5	24,90	5,6
12	MJ12 x 1,25 4h6h	10	18	10	29		35	32,5	9,8		24	S	97	10,98	11,19	55,5		92,9	31,20	6,4

1) Conforming to ISO 5855, parts 1 and 2, rolled.
2) Equal to the one of the cable used according to ISO 2020.

4 Designation

Each threaded fork-end for rolling bearings shall only be designated as in the following example :

Description block	Identity block
FORK-END THREADED	EN2356L06S

Number of EN standard

L = Thread direction code

06 = Thread code, see table

S = Length code, see table

Where the following codes are applied for the thread direction :

R : right-hand thread

L : left-hand thread

Note : If necessary, originator code S9005 may be introduced between the description block and identity block.

5 Marking

In addition to the manufacturer's own marking, each threaded fork-end for rolling bearings shall be marked (see figure) using the identity block as defined in clause 4 of this standard.

The marking method is to the manufacturer's option.

6 Technical specification

The threaded fork-ends for rolling bearings supplied according to this standard shall conform with the requirements of EN 2569.