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Textile machinery and accessories — Rings and travellers for ring spinning and ring twisting frames —

Part 1: Flange rings T and SF and their travellers

Matériel pour l'industrie textile — Anneaux et curseurs pour machines à filer et à retordre —

Partie 1: Anneaux T et SF et leurs curseurs

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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).

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).

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 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.

The committee responsible for this document is ISO/TC 72, *Textile machinery and accessories*, Subcommittee SC 1, *Spinning preparatory, spinning, twisting and winding machinery and accessories.*

This third edition cancels and replaces the second edition (ISO 96-1:2009), of which it constitutes a minor revision with the following changes:

a) full height h_1 in Figure 1 given;

b) full height h_2 in Figure 2 given;

c) value of flange width b_2 in Table 1 changed;

d) new value of 8 for height h_1 and h_2 in Table 1 inserted;

e) flange width b_1 in Figure 3 removed and adapted to Figure 4;

f) Clause 6 editorially revised.

A list of all parts in the ISO 96 series can be found on the ISO website.

Textile machinery and accessories — Rings and travellers for ring spinning and ring twisting frames —

Part 1: Flange rings T and SF and their travellers

1 Scope

This document specifies the principal dimensions of T- and SF-rings, and the mass and tolerance on the mass, of the appropriate travellers for flange rings employed on ring spinning and ring twisting machines. It also specifies the method of designation of the travellers.

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.

ISO 3, *Preferred numbers — Series of preferred numbers*

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 Principal dimensions of T- and SF-rings

The principal dimensions of T- and SF-rings are illustrated in Figures 1 and 2, and specified in Table 1.

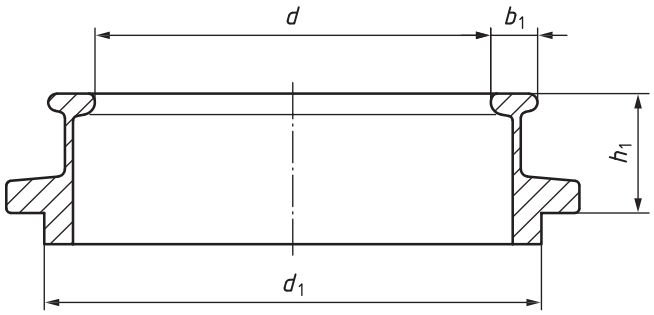

Figure 1 — Example of a T-ring

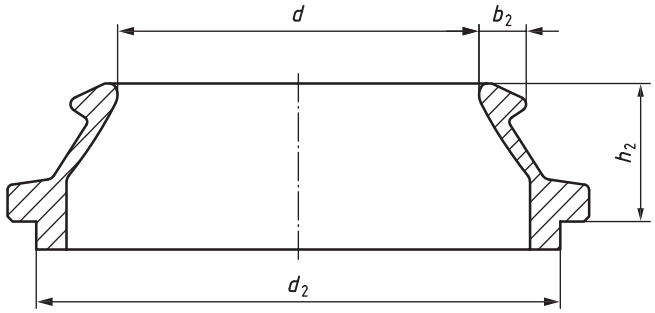

Figure 2 — Example of an SF-ring

Table 1 — Ring dimensions

Dimensions in millimetres

	T-Ring				SF-Ring			
Inside diameter d	**Height** h_1	**Fitting diameter** d_1		**Flange width** b_1	**Height** h_2	**Fitting diameter** d_2		**Flange width** b_2
		nominal	**tolerance**[a]	+0,15 0		**nominal**	**tolerance**[a]	+0,2 −0,1
36								
38								
40	8		0				0	
42	10		−0,2				−0,2	
45								
48								
(50)				2,6[b]				
51		d + 7		3,2[c]	8	d + 12		2,8
54				4[d]	10			3,8
(55)					12			
57	8		0				0	
60	10		−0,25				−0,25	
63								
(65)								
70								
75								

[a] The tolerance refers to the diameter d_1, respectively d_2, excluding any ovality.

[b] The flange width b_1 = 2,6 mm was designated previously as ring flange No. 1/2.

[c] The flange width b_1 = 3,2 mm was designated previously as ring flange No. 1.

[d] The flange width b_1 = 4 mm was designated previously as ring flange No. 2.

5 Travellers

5.1 Examples of travellers appropriate for T- and SF-rings are shown in Figures 3 and 4.

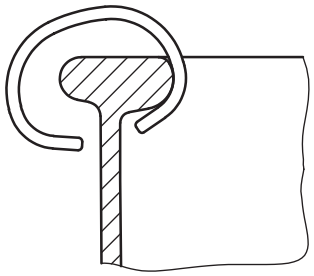

Figure 3 — Example of a traveller for a T-ring in the running position

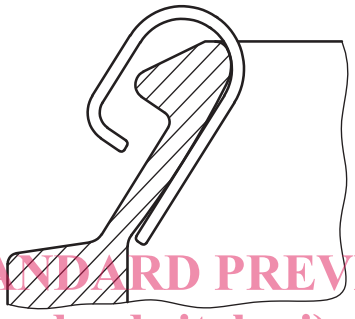

Figure 4 — Example of a traveller for an SF-ring in the running position

5.2 The values for traveller mass are given in Table 2.

Traveller mass is taken from the R20 series of preferred numbers in accordance with ISO 3. The range of traveller mass comprises values from 4 to 900 inclusive.

The traveller mass represents the nominal mass, in grams, of 1 000 travellers of the same type. The tolerance on the nominal mass for 1 000 travellers of the same type is ±3 %.

Table 2 — Traveller mass

Mass of traveller (grams per 1 000 travellers)		
4	25	160
4,5	28	180
5	31,5	200
5,6	35,5	224
6,3	40	250
7,1	45	280
8	50	315
9	56	355
10	63	400
11,2	71	450
12,5	80	500
14	90	560
16	100	630
18	112	710
20	125	800
22,4	140	900

6 Designation of travellers

The designation on the packing of travellers for the T- and SF-ring includes the following information:

a) the denotation “Traveller” (optional);

b) a reference to this document, i.e. ISO 96-1 (optional);

c) the symbol “T” or “SF” (optional);

d) the flange width, b_1, in millimetres, of the appropriate ring (optional);

e) the manufacturer’s designation for the traveller style (e.g. “C”, “EL”);

f) the wire section symbol (if applicable), e.g. “f ”, “r ” (“f” = flat, “r” = round);

g) the traveller mass (see Table 2);

h) the traveller material or traveller name if it is other than steel (where this information is omitted, it is assumed that the traveller material is steel);

i) the surface finish (optional);

j) the appearance (optional).