INTERNATIONAL STANDARD

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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

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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.

ISO 96-1 was prepared by Technical Committee ISO/TC 72, *Textile machinery and accessories*, Subcommittee SC 1, *Spinning preparatory, spinning, twisting and winding machinery and accessories*.

This second edition cancels and replaces the first edition (ISO 96-1:1992), which has been technically revised.

ISO 96 consists of the following parts, under the general title *Textile machinery and accessories — Rings and travellers for ring spinning and ring twisting frames*:

— *Part 1: Flange rings T and SF and their travellers*

— *Part 2: HZ- and J-rings and their travellers*

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 part of ISO 96 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 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.

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

3 Principal dimensions of T- and SF-rings

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

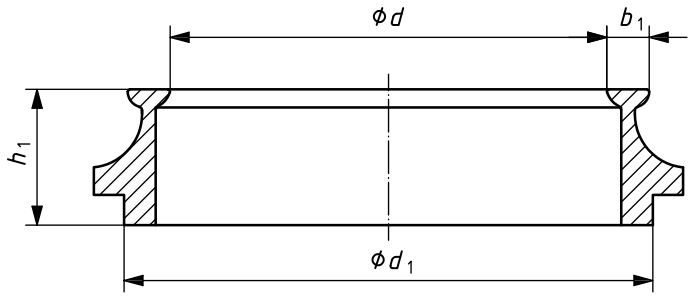

Figure 1 — Example of a T-ring

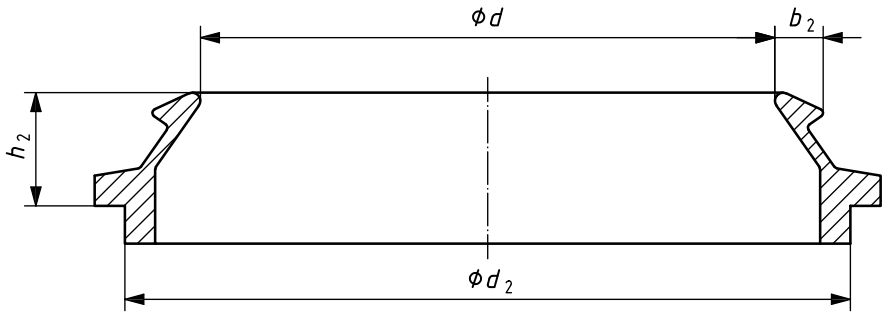

Figure 2 — Example of an SF-ring

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]	$^{+0,15}_{0}$
36 38 40 42 45 48	8 10	$d + 7$	$^{0}_{-0,2}$	2,6 [b] 3,2 [c] 4 [d]	10 12	$d + 12$	$^{0}_{-0,2}$	2,8 3,8
(50) 51 54 (55) 57 60 63 (65) 70 75	10		$^{0}_{-0,25}$				$^{0}_{-0,25}$	

[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.

4 Travellers

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

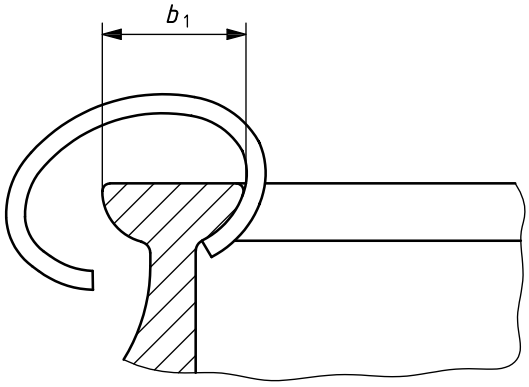

Figure 3 — Example of a traveller for a T-ring in the running position

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

4.2 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

5 Designation of travellers

The designation of a traveller for a T- and SF-ring shall include the following information:

a) “Traveller”;

b) reference to this part of ISO 96 (i.e. ISO 96-1);

c) the symbol “T” or “SF”;

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

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 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).