

SLOVENSKI STANDARD SIST ISO 4759-3:1996

01-april-1996

Tolerance za vezne elemente - 3. del: Podložke za vijake in matice, ki imajo premer navojev 1-150 mm - Razreda izdelave A in C

Tolerances for fasteners -- Part 3: Plain washers for bolts, screws and nuts with nominal thread diameters from 1 mm up to and including 150 mm -- Product grades A and C

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Tolérances pour éléments de fixation -- Partie 3: Rondelles plates pour vis et écrous de diamètre nominal de filetage de 1 mm à 150 mm inclus -- Grades A et C

SIST ISO 4759-3:1996 https://standards.iteh.ai/catalog/standards/sist/35bf3d5b-8328-49b9-a0a7-Ta slovenski standard je istoveten z; 2507-3508-180-4759-3:1991

ICS:

21.060.30 Podložke, varovalni elementi Washers, locking elements

SIST ISO 4759-3:1996

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<u>SIST ISO 4759-3:1996</u> https://standards.iteh.ai/catalog/standards/sist/35bf3d5b-8328-49b9-a0a7-26f7737d8687/sist-iso-4759-3-1996

INTERNATIONAL STANDARD

ISO 4759-3

Second edition 1991-10-15

Tolerances for fasteners -

Part 3:

Plain washers for bolts, screws and nuts with iTeh Snominal thread diameters from 1 mm up to and (including 150 mm ai)Product grades A and C

SIST ISO 4759-3:1996

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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.

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 4759-3 was prepared by Fechnical committee ISO/TC 2, Fasteners.

SIST ISO 4759-3:1996 This second edition cancels/stand sreplaces by the datirstst/3edition-8328-49b9-a0a7-(ISO 4759-3:1977), of which it constitutes a technical revision 4759-3-1996

ISO 4759 consists of the following parts, under the general title Tolerances for fasteners:

- Part 1: Bolts, screws and nuts with thread diameters between 1.6 (inclusive) and 150 mm (inclusive) and product grades A, B and C
- Part 2: Bolts, screws and nuts with thread diameters from 1 up to 3 mm and product grade F, for fine mechanics
- Part 3: Plain washers for bolts, screws and nuts with nominal thread diameters from 1 mm up to and including 150 mm - Product grades A and C
- Part 4: Tapping screws with nominal thread diameters from 1,5 mm up to and including 9,5 mm - Product grade A

@ ISO 1991

International Organization for Standardization

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Tolerances for fasteners —

Part 3:

Plain washers for bolts, screws and nuts with nominal thread diameters from 1 mm up to and including 150 mm — Product grades A and C

1 Scope

2 Normative reference

This part of ISO 4759 establishes a selection of tot **RD PREVIEW** erances for use in the preparation of ISO product standards for washers, grades A and **Corobolts, ds.iteh.ai**) screws and nuts with nominal thread diameters from 1 mm up to and including 150 mm. <u>SIST ISO 4759-3:through</u> reference in this text, constitute provisions http://tendords.iteh.gi/ctendords/size(5thildSpdt2af/190.4750. At the time of publication

Deviations from the tolerances specified in this part ads/sistof5this5part2of4ISO-4759. At the time of publication, of ISO 4759 are permitted in product standards onlyt-iso-4 the 3edition indicated was valid. All standards are subject to revision, and parties to agreements based

It is recommended that these tolerances also be used for non-standard washers.

In cases where the maximum material principle according to ISO 2692 is appropriate to certain features of certain products in these ISO product standards, other tolerances may be applicable.

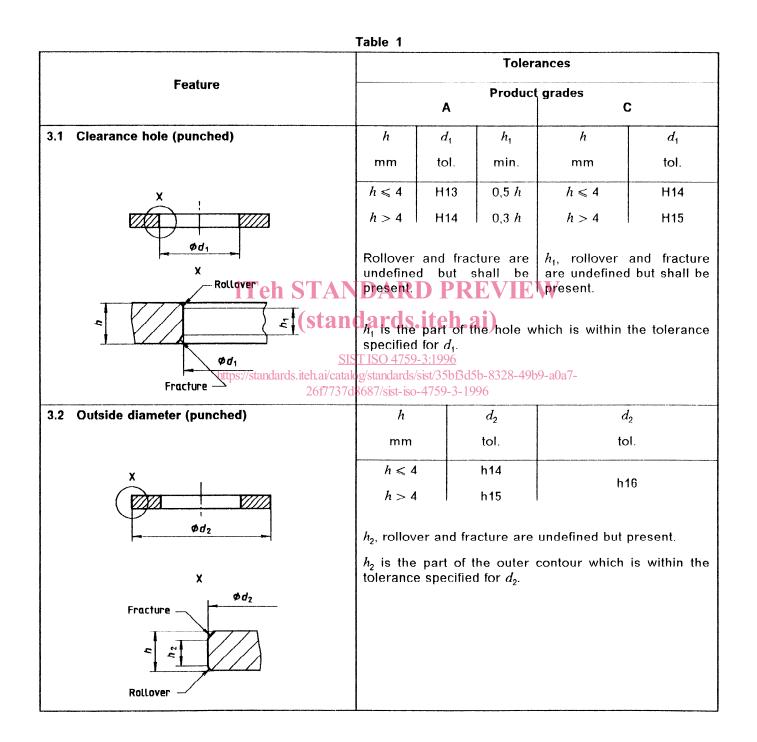
NOTE 1 The product grades refer to the quality of the product and to the size of the tolerances, grade A being the most precise and grade C the least precise (see also ISO 4759-1).

the sedition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of ISO 4759 are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 2692:1988, Technical drawings — Geometrical tolerancing — Maximum material principle.

3 Required characteristics

The tolerances for product grades A and C are given in table 1.



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Feature 3.3 Thickness	Tolerances			
	Product A		grades C	
	h		h	
	mm	tol. mm	mm	tol. mm
	$h \leqslant 0,5$	<u>+</u> 0,05		
	$0.5 < h \leq 1$	<u>+</u> 0,1	<i>h</i> ≤ 1	± 0,2
	$1 < h \leq 2,5$	± 0,2	$1 < h \leq 2,5$	± 0,3
	$2,5 < h \leqslant 4$	± 0,3	$2,5 < h \leq 4$	± 0,6
	$4 < h \leqslant 6$	± 0,6	$4 < h \leqslant 6$	<u>+</u> 1
	$6 < h \leqslant 10$	<u>+</u> 1	$6 < h \leqslant 10$	± 1,2
	$10 < h \leq 20$	<u>+</u> 1,2	$10 < h \leq 20$	± 1,6
3.4 Chamfer	$\alpha = 30^{\circ} \text{ to } 45^{\circ}$ RD $\operatorname{Pmi} = 0.25 h$ ds.itemax = 10,5 h			
• iTeh STAND A (standar				
3.5 Tolerances of form and position <u>SIST ISO</u>	4759-3:1996		<u>1</u>	
3.5.1 Thickness variation Δh on the same part $2617378887/8$	dards/sist/35bf3d5b-8 st-iso-4759-3-1996	828-49b9-a0a7 Dh		
	mm	mm	(No requirements)	
$x \qquad \phi d_1 \qquad \qquad$	$h \leq 0,5$	0,025		
	$0,5 < h \leqslant 1$	0,05		
	$1 < h \leq 2,5$	0,1		
	$2,5 < h \leqslant 4$	0,15		
┝━	$4 < h \leqslant 6$	0,2		
NOTE — Requirements for Δh apply at a distance of $x = 0, 1(d_2 - d_1)$ from both the edge of the hole and the outer edge; i.e. on 60 % of the ring width only.	$6 < h \leq 10$	0,3		
	$10 < h \leq 20$	0,4		

