भारतीय मानक
Indian Standard

IS 14962 (Part 3) : 2022
ISO 965-3 : 2021

आई एस ओ सामान्य प्रयोजन की मिटरी पेच चूड़ियां — छूटे

भाग 3 पेंच चूडियो के लिए सीमा विचलन

(पहला पुनरीक्षण)

ISO General Purpose Metric Screw Threads — Tolerances

Part 3 Limit Deviations for Screw Threads

(First Revision)

ICS 21.040.10

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली – 110002
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002
www.bis.gov.in www.standardsbis.in

December 2022 **Price Group 11**

NATIONAL FOREWORD

This Indian Standard (Part 3) (First Revision) which is identical with ISO 965-3 : 2021 'ISO general purpose metric screw threads — Tolerances — Part 3: Limit deviations for screw threads' issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on recommendation of the General Engineering and Fasteners Standards Sectional Committee and approval of the Production and General Engineering Division Council.

The various requirements of ISO general purpose metric screw threads except tolerances; are covered under IS 4218 (Part 1 to 4). The tolerances were earlier covered under IS 4218 (Part 5 and 6) which were then superseded by IS 14962 (Part 1 to 5) in 2001.

This standard was originally published in 2001 based on ISO 965-3 : 1988. The first revision of this standard has been undertaken to align it with the latest version of ISO 965-3 : 2021**.**

The major changes in this revision are as follows:

a) in the document title, "constructional" has been deleted;

b) in clause **1**, the third paragraph has been added;

c) in clause **4**, the phrase "basic profiles" has been replaced by "basic profile and fundamental deviation";

d) in clause **4** and Table 1, the deviation formula and values for the minor diameter of external threads have been deleted; and

e) in Table 1 four tolerance classes (4g, 5g4g, 8e and 9e8e) have been added.

This Indian Standard is published in several parts. The other parts in this series are:

Part 1	principles and basic data
Part 2	limits of sizes for general purpose external and internal screw threads — Medium quality
Part 4	limits of sizes for hot-dip galvanized external screw threads to mate with internal screw threads tapped with tolerance position H or G after galvanizing
Part 5	limits of sizes for internal screw threads to mate with hot-dip galvanized external screw threads with maximum size of tolerance position H before galvanizing

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'.

b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to the following International Standard for which Indian Standard also exists. The corresponding Indian Standard, which is to be substituted in its place, is listed below along with its degree of equivalence for the edition indicated.

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
ISO 5408 Screw threads — Vocabulary	IS/ISO 5408 : 2009 Screw threads — Vocabulary	Identical with ISO 5408 : 2009

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2 : 2022 'Rules for rounding off numerical values (*second revision*)'.

Indian Standard

ISO GENERAL PURPOSE METRIC SCREW THREADS — TOLERANCES

PART 3 LIMIT DEVIATIONS FOR SCREW THREADS

(First Revision)

1 Scope

This document specifies limit deviations for pitch and crest diameters for ISO general purpose metric screw threads (M) conforming to ISO 261 having basic profile in accordance with ISO 68-1.

The limit deviations specified are derived from the fundamental deviations and tolerances specified in ISO 965-1.

This document is applicable to ISO general purpose metric screw threads with the recommended tolerance classes.

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 5408, *Screw threads — Vocabulary*

3 Terms and definitions

For the purposes of this part of document, the terms and definitions given in ISO 5408 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Limit deviations

Limit deviations are given in Table 1.

For internal threads as well as external threads, the actual root contour shall not in any point transgress the basic profile and fundamental deviation.

For coated threads, the tolerances apply to the parts before coating, unless otherwise stated. After coating the actual thread profile shall not in any point transgress the maximum material limits for position H or h respectively.

NOTE These provisions are intended for thin coatings, for example those obtained by electroplating.

Table 1 — Limit deviations

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
0,99	1,4	0,2	–	–	–	–	–	3h4h	0	-24	0	-36
			–	–	–	–	–	4g	-17	-47	-17	-53
			4H	40	0	38	0	4h	0	-30	0	-36
			–	–	–	–	–	5g4g	-17	-55	-17	-53
			5G	–	–	–	–	5g6g	-17	-55	-17	-73
			5H	–	–	–	–	5h4h	0	-38	0	-36
			–	–	–	–	–	5h6h	0	-38	0	-56
			–	–	–	–	–	6e	–	–	–	–
			–	–	–	–	–	6f	–	–	–	–
			6G	–	–	–	–	6g	-17	-65	-17	-73
			6H	–	–	–	–	6h	0	-48	0	-56
			–	–	–	–	–	7e6e	–	–	–	–
			7G	–	–	–	–	7g6g	–	–	–	–
			7H	–	–	–	–	7h6h	–	–	–	–
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–
0,99	1,4	0,25	–	–	–	–	–	3h4h	0	-26	0	-42
			–	–	–	–	–	4g	-18	-52	-18	-60
			4H	45	0	45	0	4h	0	-34	0	-42
			–	–	–	–	–	5g4g	-18	-60	-18	-60
			5G	74	18	74	18	5g6g	-18	-60	-18	-85
			5H	56	0	56	0	5h4h	0	-42	0	-42
			–	–	–	–	–	5h6h	0	-42	0	-67
			–	–	–	–	–	6e	–	–	–	–
			–	–	–	–	–	6f	–	–	–	–
			6G	–	–	–	–	6g	-18	-71	-18	-85
			6H	–	–	–	–	6h	0	-53	0	-67
			–	–	–	–	–	7e6e	–	–	–	–
			7G	–	–	–	–	7g6g	–	–	–	–
			7H	–	–	–	–	7h6h	–	–	–	–
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
0,99	1,4	0,3	–	–	–	–	–	3h4h	0	-28	0	-48
			–	–	–	–	–	4g	-18	-54	-18	-66
			4H	48	0	53	0	4h	0	-36	0	-48
			–	–	–	–	–	5g4g	-18	-63	-18	-66
			5G	78	18	85	18	5g6g	-18	-63	-18	-93
			5H	60	0	67	0	5h4h	0	-45	0	-48
			–	–	–	–	–	5h6h	0	-45	0	-75
			–	–	–	–	–	6e	–	–	–	–
			–	–	–	–	–	6f	–	–	–	–
			6G	93	18	103	18	6g	-18	-74	-18	-93
			6H	75	0	85	0	6h	0	-56	0	-75
			–	–	–	–	–	7e6e	–	–	–	–
			7G	–	–	–	–	7g6g	–	–	–	–
			7H	–	–	–	–	7h6h	–	–	–	–
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–
1,4	2,8	0,2	–	–	–	–	–	3h4h	0	-25	0	-36
			–	–	–	–	–	4g	-17	-49	-17	-53
			4H	42	0	38	0	4h	0	-32	0	-36
			–	–	–	–	–	5g4g	-17	-57	-17	-53
			5G	–	–	–	–	5g6g	-17	-57	-17	-73
			5H	–	–	–	–	5h4h	0	-40	0	-36
			–	–	–	–	–	5h6h	0	-40	0	-56
			–	–	–	–	–	6e	–	–	–	–
			–	–	–	–	–	6f	–	–	–	–
			6G	–	–	–	–	6g	-17	-67	-17	-73
			6H	–	–	–	–	6h	0	-50	0	-56
			–	–	–	–	–	7e6e	–	–	–	–
			7G	–	–	–	–	7g6g	–	–	–	–
			7H	–	–	–	–	7h6h	–	–	–	–
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
1,4	2,8	0,25	–	–	–	–	–	3h4h	0	-28	0	-42
			–	–	–	–	–	4g	-18	-54	-18	-60
			4H	48	0	45	0	4h	0	-36	0	-42
			–	–	–	–	–	5g4g	-18	-63	-18	-60
			5G	78	18	74	18	5g6g	-18	-63	-18	-85
			5H	60	0	56	0	5h4h	0	-45	0	-42
			–	–	–	–	–	5h6h	0	-45	0	-67
			–	–	–	–	–	6e	–	–	–	–
			–	–	–	–	–	6f	–	–	–	–
			6G	–	–	–	–	6g	-18	-74	-18	-85
			6H	–	–	–	–	6h	0	-56	0	-67
			–	–	–	–	–	7e6e	–	–	–	–
			7G	–	–	–	–	7g6g	–	–	–	–
			7H	–	–	–	–	7h6h	–	–	–	–
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–
1,4	2,8	0,35	–	–	–	–	–	3h4h	0	-32	0	-53
			–	–	–	–	–	4g	-19	-59	-19	-72
			4H	53	0	63	0	4h	0	-40	0	-53
			–	–	–	–	–	5g4g	-19	-69	-19	-72
			5G	86	19	99	19	5g6g	-19	-69	-19	-104
			5H	67	0	80	0	5h4h	0	-50	0	-53
			–	–	–	–	–	5h6h	0	-50	0	-85
			–	–	–	–	–	6e	–	–	–	–
			–	–	–	–	–	6f	-34	-97	-34	-119
			6G	104	19	119	19	6g	-19	-82	-19	-104
			6H	85	0	100	0	6h	0	-63	0	-85
			–	–	–	–	–	7e6e	–	–	–	–
			7G	–	–	–	–	7g6g	-19	-99	-19	-104
			7H	–	–	–	–	7h6h	0	-80	0	-85
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
1,4	2,8	0,4	–	–	–	–	–	3h4h	0	-34	0	-60
			–	–	–	–	–	4g	-19	-61	-19	-79
			4H	56	0	71	0	4h	0	-42	0	-60
			–	–	–	–	–	5g4g	-19	-72	-19	-79
			5G	90	19	109	19	5g6g	-19	-72	-19	-114
			5H	71	0	90	0	5h4h	0	-53	0	-60
			–	–	–	–	–	5h6h	0	-53	0	-95
			–	–	–	–	–	6e	–	–	–	–
			–	–	–	–	–	6f	-34	-101	-34	-129
			6G	109	19	131	19	6g	-19	-86	-19	-114
			6H	90	0	112	0	6h	0	-67	0	-95
			–	–	–	–	–	7e6e	–	–	–	–
			7G	–	–	–	–	7g6g	-19	-104	-19	-114
			7H	–	–	–	–	7h6h	0	-85	0	-95
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–
1,4	2,8	0,45	–	–	–	–	–	3h4h	0	-36	0	-63
			–	–	–	–	–	4g	-20	-65	-20	-83
			4H	60	0	80	0	4h	0	-45	0	-63
			–	–	–	–	–	5g4g	-20	-76	-20	-83
			5G	95	20	120	20	5g6g	-20	-76	-20	-120
			5H	75	0	100	0	5h4h	0	-56	0	-63
			–	–	–	–	–	5h6h	0	-56	0	-100
			–	–	–	–	–	6e	–	–	–	–
			–	–	–	–	–	6f	-35	-106	-35	-135
			6G	115	20	145	20	6g	-20	-91	-20	-120
			6H	95	0	125	0	6h	0	-71	0	-100
			–	–	–	–	–	7e6e	–	–	–	–
			7G	–	–	–	–	7g6g	-20	-110	-20	-120
			7H	–	–	–	–	7h6h	0	-90	0	-100
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
2,8	5,6	0,35	–	–	–	–	–	3h4h	0	-34	0	-53
			–	–	–	–	–	4g	-19	-61	-19	-72
			4H	56	0	63	0	4h	0	-42	0	-53
			–	–	–	–	–	5g4g	-19	-72	-19	-72
			5G	90	19	99	19	5g6g	-19	-72	-19	-104
			5H	71	0	80	0	5h4h	0	-53	0	-53
			–	–	–	–	–	5h6h	0	-53	0	-85
			–	–	–	–	–	6e	–	–	–	–
			–	–	–	–	–	6f	-34	-101	-34	-119
			6G	109	19	119	19	6g	-19	-86	-19	-104
			6H	90	0	100	0	6h	0	-67	0	-85
			–	–	–	–	–	7e6e	–	–	–	–
			7G	–	–	–	–	7g6g	-19	-104	-19	-104
			7H	–	–	–	–	7h6h	0	-85	0	-85
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–
2,8	5,6	0,5	–	–	–	–	–	3h4h	0	-38	0	-67
			–	–	–	–	–	4g	-20	-68	-20	-87
			4H	63	0	90	0	4h	0	-48	0	-67
			–	–	–	–	–	5g4g	-20	-80	-20	-87
			5G	100	20	132	20	5g6g	-20	-80	-20	-126
			5H	80	0	112	0	5h4h	0	-60	0	-67
			–	–	–	–	–	5h6h	0	-60	0	-106
			–	–	–	–	–	6e	-50	-125	-50	-156
			–	–	–	–	–	6f	-36	-111	-36	-142
			6G	120	20	160	20	6g	-20	-95	-20	-126
			6H	100	0	140	0	6h	0	-75	0	-106
			–	–	–	–	–	7e6e	-50	-145	-50	-156
			7G	145	20	200	20	7g6g	-20	-115	-20	-126
			7H	125	0	180	0	7h6h	0	-95	0	-106
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
2,8	5,6	0,6	–	–	–	–	–	3h4h	0	-42	0	-80
			–	–	–	–	–	4g	-21	-74	-21	-101
			4H	71	0	100	0	4h	0	-53	0	-80
			–	–	–	–	–	5g4g	-21	-88	-21	-101
			5G	111	21	146	21	5g6g	-21	-88	-21	-146
			5H	90	0	125	0	5h4h	0	-67	0	-80
			–	–	–	–	–	5h6h	0	-67	0	-125
			–	–	–	–	–	6e	-53	-138	-53	-178
			–	–	–	–	–	6f	-36	-121	-36	-161
			6G	133	21	181	21	6g	-21	-106	-21	-146
			6H	112	0	160	0	6h	0	-85	0	-125
			–	–	–	–	–	7e6e	-53	-159	-53	-178
			7G	161	21	221	21	7g6g	-21	-127	-21	-146
			7H	140	0	200	0	7h6h	0	-106	0	-125
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–
2,8	5,6	0,7	–	–	–	–	–	3h4h	0	-45	0	-90
			–	–	–	–	–	4g	-22	-78	-22	-112
			4H	75	0	112	0	4h	0	-56	0	-90
			–	–	–	–	–	5g4g	-22	-93	-22	-112
			5G	117	22	162	22	5g6g	-22	-93	-22	-162
			5H	95	0	140	0	5h4h	0	-71	0	-90
			–	–	–	–	–	5h6h	0	-71	0	-140
			–	–	–	–	–	6e	-56	-146	-56	-196
			–	–	–	–	–	6f	-38	-128	-38	-178
			6G	140	22	202	22	6g	-22	-112	-22	-162
			6H	118	0	180	0	6h	0	-90	0	-140
			–	–	–	–	–	7e6e	-56	-168	-56	-196
			7G	172	22	246	22	7g6g	-22	-134	-22	-162
			7H	150	0	224	0	7h6h	0	-112	0	-140
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
2,8	5,6	0,75	–	–	–	–	–	3h4h	0	-45	0	-90
			–	–	–	–	–	4g	-22	-78	-22	-112
			4H	75	0	118	0	4h	0	-56	0	-90
			–	–	–	–	–	5g4g	-22	-93	-22	-112
			5G	117	22	172	22	5g6g	-22	-93	-22	-162
			5H	95	0	150	0	5h4h	0	-71	0	-90
			–	–	–	–	–	5h6h	0	-71	0	-140
			–	–	–	–	–	6e	-56	-146	-56	-196
			–	–	–	–	–	6f	-38	-128	-38	-178
			6G	140	22	212	22	6g	-22	-112	-22	-162
			6H	118	0	190	0	6h	0	-90	0	-140
			–	–	–	–	–	7e6e	-56	-168	-56	-196
			7G	172	22	258	22	7g6g	-22	-134	-22	-162
			7H	150	0	236	0	7h6h	0	-112	0	-140
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–
2,8	5,6	0,8	–	–	–	–	–	3h4h	0	-48	0	-95
			–	–	–	–	–	4g	-24	-84	-24	-119
			4H	80	0	125	0	4h	0	-60	0	-95
			–	–	–	–	–	5g4g	-24	-99	-24	-119
			5G	124	24	184	24	5g6g	-24	-99	-24	-174
			5H	100	0	160	0	5h4h	0	-75	0	-95
			–	–	–	–	–	5h6h	0	-75	0	-150
			–	–	–	–	–	6e	-60	-155	-60	-210
			–	–	–	–	–	6f	-38	-133	-38	-188
			6G	149	24	224	24	6g	-24	-119	-24	-174
			6H	125	0	200	0	6h	0	-95	0	-150
			–	–	–	–	–	7e6e	-60	-178	-60	-210
			7G	184	24	274	24	7g6g	-24	-142	-24	-174
			7H	160	0	250	0	7h6h	0	-118	0	-150
			–	–	–	–	–	8e	-60	-210	-60	-296
			8G	224	24	339	24	8g	-24	-174	-24	-260
			–	–	–	–	–	9e8e	-60	-250	-60	-296
			8H	200	0	315	0	9g8g	-24	-214	-24	-260

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
5,6	11,2	0,75	–	–	–	–	–	3h4h	0	-50	0	-90
			–	–	–	–	–	4g	-22	-85	-22	-112
			4H	85	0	118	0	4h	0	-63	0	-90
			–	–	–	–	–	5g4g	-22	-102	-22	-112
			5G	128	22	172	22	5g6g	-22	-102	-22	-162
			5H	106	0	150	0	5h4h	0	-80	0	-90
			–	–	–	–	–	5h6h	0	-80	0	-140
			–	–	–	–	–	6e	-56	-156	-56	-196
			–	–	–	–	–	6f	-38	-138	-38	-178
			6G	154	22	212	22	6g	-22	-122	-22	-162
			6H	132	0	190	0	6h	0	-100	0	-140
			–	–	–	–	–	7e6e	-56	-181	-56	-196
			7G	192	22	258	22	7g6g	-22	-147	-22	-162
			7H	170	0	236	0	7h6h	0	-125	0	-140
			–	–	–	–	–	8e	–	–	–	–
			8G	–	–	–	–	8g	–	–	–	–
			–	–	–	–	–	9e8e	–	–	–	–
			8H	–	–	–	–	9g8g	–	–	–	–
5,6	11,2	1	–	–	–	–	–	3h4h	0	-56	0	-112
			–	–	–	–	–	4g	-26	-97	-26	-138
			4H	95	0	150	0	4h	0	-71	0	-112
			–	–	–	–	–	5g4g	-26	-116	-26	-138
			5G	144	26	216	26	5g6g	-26	-116	-26	-206
			5H	118	0	190	0	5h4h	0	-90	0	-112
			–	–	–	–	–	5h6h	0	-90	0	-180
			–	–	–	–	–	6e	-60	-172	-60	-240
			–	–	–	–	–	6f	-40	-152	-40	-220
			6G	176	26	262	26	6g	-26	-138	-26	-206
			6H	150	0	236	0	6h	0	-112	0	-180
			–	–	–	–	–	7e6e	-60	-200	-60	-240
			7G	216	26	326	26	7g6g	-26	-166	-26	-206
			7H	190	0	300	0	7h6h	0	-140	0	-180
			–	–	–	–	–	8e	-60	-240	-60	-340
			8G	262	26	401	26	8g	-26	-206	-26	-306
			–	–	–	–	–	9e8e	-60	-284	-60	-340
			8H	236	0	375	0	9g8g	-26	-250	-26	-306

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
5,6	11,2	1,25	–	–	–	–	–	3h4h	0	-60	0	-132
			–	–	–	–	–	4g	-28	-103	-28	-160
			4H	100	0	170	0	4h	0	-75	0	-132
			–	–	–	–	–	5g4g	-28	-123	-28	-160
			5G	153	28	240	28	5g6g	-28	-123	-28	-240
			5H	125	0	212	0	5h4h	0	-95	0	-132
			–	–	–	–	–	5h6h	0	-95	0	-212
			–	–	–	–	–	6e	-63	-181	-63	-275
			–	–	–	–	–	6f	-42	-160	-42	-254
			6G	188	28	293	28	6g	-28	-146	-28	-240
			6H	160	0	265	0	6h	0	-118	0	-212
			–	–	–	–	–	7e6e	-63	-213	-63	-275
			7G	228	28	363	28	7g6g	-28	-178	-28	-240
			7H	200	0	335	0	7h6h	0	-150	0	-212
			–	–	–	–	–	8e	-63	-253	-63	-398
			8G	278	28	453	28	8g	-28	-218	-28	-363
			–	–	–	–	–	9e8e	-63	-299	-63	-398
			8H	250	0	425	0	9g8g	-28	-264	-28	-363
5,6	11,2	1,5	–	–	–	–	–	3h4h	0	-67	0	-150
			–	–	–	–	–	4g	-32	-117	-32	-182
			4H	112	0	190	0	4h	0	-85	0	-150
			–	–	–	–	–	5g4g	-32	-138	-32	-182
			5G	172	32	268	32	5g6g	-32	-138	-32	-268
			5H	140	0	236	0	5h4h	0	-106	0	-150
			–	–	–	–	–	5h6h	0	-106	0	-236
			–	–	–	–	–	6e	-67	-199	-67	-303
			–	–	–	–	–	6f	-45	-177	-45	-281
			6G	212	32	332	32	6g	-32	-164	-32	-268
			6H	180	0	300	0	6h	0	-132	0	-236
			–	–	–	–	–	7e6e	-67	-237	-67	-303
			7G	256	32	407	32	7g6g	-32	-202	-32	-268
			7H	224	0	375	0	7h6h	0	-170	0	-236
			–	–	–	–	–	8e	-67	-279	-67	-442
			8G	312	32	507	32	8g	-32	-244	-32	-407
			–	–	–	–	–	9e8e	-67	-332	-67	-442
			8H	280	0	475	0	9g8g	-32	-297	-32	-407

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
11,2	22,4	1	–	–	–	–	–	3h4h	0	-60	0	-112
			–	–	–	–	–	4g	-26	-101	-26	-138
			4H	100	0	150	0	4h	0	-75	0	-112
			–	–	–	–	–	5g4g	-26	-121	-26	-138
			5G	151	26	216	26	5g6g	-26	-121	-26	-206
			5H	125	0	190	0	5h4h	0	-95	0	-112
			–	–	–	–	–	5h6h	0	-95	0	-180
			–	–	–	–	–	6e	-60	-178	-60	-240
			–	–	–	–	–	6f	-40	-158	-40	-220
			6G	186	26	262	26	6g	-26	-144	-26	-206
			6H	160	0	236	0	6h	0	-118	0	-180
			–	–	–	–	–	7e6e	-60	-210	-60	-240
			7G	226	26	326	26	7g6g	-26	-176	-26	-206
			7H	200	0	300	0	7h6h	0	-150	0	-180
			–	–	–	–	–	8e	-60	-250	-60	-340
			8G	276	26	401	26	8g	-26	-216	-26	-306
			–	–	–	–	–	9e8e	-60	-296	-60	-340
			8H	250	0	375	0	9g8g	-26	-262	-26	-306
11,2	22,4	1,25	–	–	–	–	–	3h4h	0	-67	0	-132
			–	–	–	–	–	4g	-28	-113	-28	-160
			4H	112	0	170	0	4h	0	-85	0	-132
			–	–	–	–	–	5g4g	-28	-134	-28	-160
			5G	168	28	240	28	5g6g	-28	-134	-28	-240
			5H	140	0	212	0	5h4h	0	-106	0	-132
			–	–	–	–	–	5h6h	0	-106	0	-212
			–	–	–	–	–	6e	-63	-195	-63	-275
			–	–	–	–	–	6f	-42	-174	-42	-254
			6G	208	28	293	28	6g	-28	-160	-28	-240
			6H	180	0	265	0	6h	0	-132	0	-212
			–	–	–	–	–	7e6e	-63	-233	-63	-275
			7G	252	28	363	28	7g6g	-28	-198	-28	-240
			7H	224	0	335	0	7h6h	0	-170	0	-212
			–	–	–	–	–	8e	-63	-275	-63	-398
			8G	308	28	453	28	8g	-28	-240	-28	-363
			–	–	–	–	–	9e8e	-63	-328	-63	-398
			8H	280	0	425	0	9g8g	-28	-293	-28	-363

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
11,2	22,4	1,5	–	–	–	–	–	3h4h	0	-71	0	-150
			–	–	–	–	–	4g	-32	-122	-32	-182
			4H	118	0	190	0	4h	0	-90	0	-150
			–	–	–	–	–	5g4g	-32	-144	-32	-182
			5G	182	32	268	32	5g6g	-32	-144	-32	-268
			5H	150	0	236	0	5h4h	0	-112	0	-150
			–	–	–	–	–	5h6h	0	-112	0	-236
			–	–	–	–	–	6e	-67	-207	-67	-303
			–	–	–	–	–	6f	-45	-185	-45	-281
			6G	222	32	332	32	6g	-32	-172	-32	-268
			6H	190	0	300	0	6h	0	-140	0	-236
			–	–	–	–	–	7e6e	-67	-247	-67	-303
			7G	268	32	407	32	7g6g	-32	-212	-32	-268
			7H	236	0	375	0	7h6h	0	-180	0	-236
			–	–	–	–	–	8e	-67	-291	-67	-442
			8G	332	32	507	32	8g	-32	-256	-32	-407
			–	–	–	–	–	9e8e	-67	-347	-67	-442
			8H	300	0	475	0	9g8g	-32	-312	-32	-407
11,2	22,4	1,75	–	–	–	–	–	3h4h	0	-75	0	-170
			–	–	–	–	–	4g	-34	-129	-34	-204
			4H	125	0	212	0	4h	0	-95	0	-170
			–	–	–	–	–	5g4g	-34	-152	-34	-204
			5G	194	34	299	34	5g6g	-34	-152	-34	-299
			5H	160	0	265	0	5h4h	0	-118	0	-170
			–	–	–	–	–	5h6h	0	-118	0	-265
			–	–	–	–	–	6e	-71	-221	-71	-336
			–	–	–	–	–	6f	-48	-198	-48	-313
			6G	234	34	369	34	6g	-34	-184	-34	-299
			6H	200	0	335	0	6h	0	-150	0	-265
			–	–	–	–	–	7e6e	-71	-261	-71	-336
			7G	284	34	459	34	7g6g	-34	-224	-34	-299
			7H	250	0	425	0	7h6h	0	-190	0	-265
			–	–	–	–	–	8e	-71	-307	-71	-496
			8G	349	34	564	34	8g	-34	-270	-34	-459
			–	–	–	–	–	9e8e	-71	-371	-71	-496
			8H	315	0	530	0	9g8g	-34	-334	-34	-459

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
11,2	22,4	2	–	–	–	–	–	3h4h	0	-80	0	-180
			–	–	–	–	–	4g	-38	-138	-38	-218
			4H	132	0	236	0	4h	0	-100	0	-180
			–	–	–	–	–	5g4g	-38	-163	-38	-218
			5G	208	38	338	38	5g6g	-38	-163	-38	-318
			5H	170	0	300	0	5h4h	0	-125	0	-180
			–	–	–	–	–	5h6h	0	-125	0	-280
			–	–	–	–	–	6e	-71	-231	-71	-351
			–	–	–	–	–	6f	-52	-212	-52	-332
			6G	250	38	413	38	6g	-38	-198	-38	-318
			6H	212	0	375	0	6h	0	-160	0	-280
			–	–	–	–	–	7e6e	-71	-271	-71	-351
			7G	303	38	513	38	7g6g	-38	-238	-38	-318
			7H	265	0	475	0	7h6h	0	-200	0	-280
			–	–	–	–	–	8e	-71	-321	-71	-521
			8G	373	38	638	38	8g	-38	-288	-38	-488
			–	–	–	–	–	9e8e	-71	-386	-71	-521
			8H	335	0	600	0	9g8g	-38	-353	-38	-488
11,2	22,4	2,5	–	–	–	–	–	3h4h	0	-85	0	-212
			–	–	–	–	–	4g	-42	-148	-42	-254
			4H	140	0	280	0	4h	0	-106	0	-212
			–	–	–	–	–	5g4g	-42	-174	-42	-254
			5G	222	42	397	42	5g6g	-42	-174	-42	-377
			5H	180	0	355	0	5h4h	0	-132	0	-212
			–	–	–	–	–	5h6h	0	-132	0	-335
			–	–	–	–	–	6e	-80	-250	-80	-415
			–	–	–	–	–	6f	-58	-228	-58	-393
			6G	266	42	492	42	6g	-42	-212	-42	-377
			6H	224	0	450	0	6h	0	-170	0	-335
			–	–	–	–	–	7e6e	-80	-292	-80	-415
			7G	322	42	602	42	7g6g	-42	-254	-42	-377
			7H	280	0	560	0	7h6h	0	-212	0	-335
			–	–	–	–	–	8e	-80	-345	-80	-610
			8G	397	42	752	42	8g	-42	-307	-42	-572
			–	–	–	–	–	9e8e	-80	-415	-80	-610
			8H	355	0	710	0	9g8g	-42	-377	-42	-572

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
22,4	45	1	–	–	–	–	–	3h4h	0	-63	0	-112
			–	–	–	–	–	4g	-26	-106	-26	-138
			4H	106	0	150	0	4h	0	-80	0	-112
			–	–	–	–	–	5g4g	-26	-126	-26	-138
			5G	158	26	216	26	5g6g	-26	-126	-26	-206
			5H	132	0	190	0	5h4h	0	-100	0	-112
			–	–	–	–	–	5h6h	0	-100	0	-180
			–	–	–	–	–	6e	-60	-185	-60	-240
			–	–	–	–	–	6f	-40	-165	-40	-220
			6G	196	26	262	26	6g	-26	-151	-26	-206
			6H	170	0	236	0	6h	0	-125	0	-180
			–	–	–	–	–	7e6e	-60	-220	-60	-240
			7G	238	26	326	26	7g6g	-26	-186	-26	-206
			7H	212	0	300	0	7h6h	0	-160	0	-180
			–	–	–	–	–	8e	-60	-260	-60	-340
			8G	–	–	–	–	8g	-26	-226	-26	-306
			–	–	–	–	–	9e8e	-60	-310	-60	-340
			8H	-	-	-	-	9g8g	-26	-276	-26	-306
22,4	45	1,5	–	–	–	–	–	3h4h	0	-75	0	-150
			–	–	–	–	–	4g	-32	-127	-32	-182
			4H	125	0	190	0	4h	0	-95	0	-150
			–	–	–	–	–	5g4g	-32	-150	-32	-182
			5G	192	32	268	32	5g6g	-32	-150	-32	-268
			5H	160	0	236	0	5h4h	0	-118	0	-150
			–	–	–	–	–	5h6h	0	-118	0	-236
			–	–	–	–	–	6e	-67	-217	-67	-303
			–	–	–	–	–	6f	-45	-195	-45	-281
			6G	232	32	332	32	6g	-32	-182	-32	-268
			6H	200	0	300	0	6h	0	-150	0	-236
			–	–	–	–	–	7e6e	-67	-257	-67	-303
			7G	282	32	407	32	7g6g	-32	-222	-32	-268
			7H	250	0	375	0	7h6h	0	-190	0	-236
			–	–	–	–	–	8e	-67	-303	-67	-442
			8G	347	32	507	32	8g	-32	-268	-32	-407
			–	–	–	–	–	9e8e	-67	-367	-67	-442
			8H	315	0	475	0	9g8g	-32	-332	-32	-407

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
22,4	45	2	–	–	–	–	–	3h4h	0	-85	0	-180
			–	–	–	–	–	4g	-38	-144	-38	-218
			4H	140	0	236	0	4h	0	-106	0	-180
			–	–	–	–	–	5g4g	-38	-170	-38	-218
			5G	218	38	338	38	5g6g	-38	-170	-38	-318
			5H	180	0	300	0	5h4h	0	-132	0	-180
			–	–	–	–	–	5h6h	0	-132	0	-280
			–	–	–	–	–	6e	-71	-241	-71	-351
			–	–	–	–	–	6f	-52	-222	-52	-332
			6G	262	38	413	38	6g	-38	-208	-38	-318
			6H	224	0	375	0	6h	0	-170	0	-280
			–	–	–	–	–	7e6e	-71	-283	-71	-351
			7G	318	38	513	38	7g6g	-38	-250	-38	-318
			7H	280	0	475	0	7h6h	0	-212	0	-280
			–	–	–	–	–	8e	-71	-336	-71	-521
			8G	393	38	638	38	8g	-38	-303	-38	-488
			–	–	–	–	–	9e8e	-71	-406	-71	-521
			8H	355	0	600	0	9g8g	-38	-373	-38	-488
22,4	45	3	–	–	–	–	–	3h4h	0	-100	0	-236
			–	–	–	–	–	4g	-48	-173	-48	-284
			4H	170	0	315	0	4h	0	-125	0	-236
			–	–	–	–	–	5g4g	-48	-208	-48	-284
			5G	260	48	448	48	5g6g	-48	-208	-48	-423
			5H	212	0	400	0	5h4h	0	-160	0	-236
			–	–	–	–	–	5h6h	0	-160	0	-375
			–	–	–	–	–	6e	-85	-285	-85	-460
			–	–	–	–	–	6f	-63	-263	-63	-438
			6G	313	48	548	48	6g	-48	-248	-48	-423
			6H	265	0	500	0	6h	0	-200	0	-375
			–	–	–	–	–	7e6e	-85	-335	-85	-460
			7G	383	48	678	48	7g6g	-48	-298	-48	-423
			7H	335	0	630	0	7h6h	0	-250	0	-375
			–	–	–	–	–	8e	-85	-400	-85	-685
			8G	473	48	848	48	8g	-48	-363	-48	-648
			–	–	–	–	–	9e8e	-85	-485	-85	-685
			8H	425	0	800	0	9g8g	-48	-448	-48	-648

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
22,4	45	3,5	–	–	–	–	–	3h4h	0	-106	0	-265
			–	–	–	–	–	4g	-53	-185	-53	-318
			4H	180	0	355	0	4h	0	132	0	-265
			–	–	–	–	–	5g4g	-53	-223	-53	-318
			5G	277	53	503	53	5g6g	-53	-223	-53	-478
			5H	224	0	450	0	5h4h	0	-170	0	-265
			–	–	–	–	–	5h6h	0	-170	0	-425
			–	–	–	–	–	6e	-90	-302	-90	-515
			–	–	–	–	–	6f	-70	-282	-70	-495
			6G	333	53	613	53	6g	-53	-265	-53	-478
			6H	280	0	560	0	6h	0	-212	0	-425
			–	–	–	–	–	7e6e	-90	-355	-90	-515
			7G	408	53	763	53	7g6g	-53	-318	-53	-478
			7H	355	0	710	0	7h6h	0	-265	0	-425
			–	–	–	–	–	8e	-90	-425	-90	-760
			8G	503	53	953	53	8g	-53	-388	-53	-723
			–	–	–	–	–	9e8e	-90	-515	-90	-760
			8H	450	0	900	0	9g8g	-53	-478	-53	-723
22,4	45	4	–	–	–	–	–	3h4h	0	-112	0	-300
			–	–	–	–	–	4g	-60	-200	-60	-360
			4H	190	0	375	0	4h	0	-140	0	-300
			–	–	–	–	–	5g4g	-60	-240	-60	-360
			5G	296	60	535	60	5g6g	-60	-240	-60	-535
			5H	236	0	475	0	5h4h	0	-180	0	-300
			–	–	–	–	–	5h6h	0	-180	0	-475
			–	–	–	–	–	6e	-95	-319	-95	-570
			–	–	–	–	–	6f	-75	-299	-75	-550
			6G	360	60	660	60	6g	-60	-284	-60	-535
			6H	300	0	600	0	6h	0	-224	0	-475
			–	–	–	–	–	7e6e	-95	-375	-95	-570
			7G	435	60	810	60	7g6g	-60	-340	-60	-535
			7H	375	0	750	0	7h6h	0	-280	0	-475
			–	–	–	–	–	8e	-95	-450	-95	-845
			8G	535	60	1 010	60	8g	-60	-415	-60	-810
			–	–	–	–	–	9e8e	-95	-545	-95	-845
			8H	475	0	950	0	9g8g	-60	-510	-60	-810

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
22,4	45	4,5	–	–	–	–	–	3h4h	0	-118	0	-315
			–	–	–	–	–	4g	-63	-213	-63	-378
			4H	200	0	425	0	4h	0	-150	0	-315
			–	–	–	–	–	5g4g	-63	-253	-63	-378
			5G	313	63	593	63	5g6g	-63	-253	-63	-563
			5H	250	0	530	0	5h4h	0	-190	0	-315
			–	–	–	–	–	5h6h	0	-190	0	-500
			–	–	–	–	–	6e	-100	-336	-100	-600
			–	–	–	–	–	6f	-80	-316	-80	-580
			6G	378	63	733	63	6g	-63	-299	-63	-563
			6H	315	0	670	0	6h	0	-236	0	-500
			–	–	–	–	–	7e6e	-100	-400	-100	-600
			7G	463	63	913	63	7g6g	-63	-363	-63	-563
			7H	400	0	850	0	7h6h	0	-300	0	-500
			–	–	–	–	–	8e	-100	-475	-100	-900
			8G	563	63	1 123	63	8g	-63	-438	-63	-863
			–	–	–	–	–	9e8e	-100	-575	-100	-900
			8H	500	0	1 060	0	9g8g	-63	-538	-63	-863
45	90	1,5	–	–	–	–	–	3h4h	0	-80	0	-150
			–	–	–	–	–	4g	-32	-132	-32	-182
			4H	132	0	190	0	4h	0	-100	0	-150
			–	–	–	–	–	5g4g	-32	-157	-32	-182
			5G	202	32	268	32	5g6g	-32	-157	-32	-268
			5H	170	0	236	0	5h4h	0	-125	0	-150
			–	–	–	–	–	5h6h	0	-125	0	-236
			–	–	–	–	–	6e	-67	-227	-67	-303
			–	–	–	–	–	6f	-45	-205	-45	-281
			6G	244	32	332	32	6g	-32	-192	-32	-268
			6H	212	0	300	0	6h	0	-160	0	-236
			–	–	–	–	–	7e6e	-67	-267	-67	-303
			7G	297	32	407	32	7g6g	-32	-232	-32	-268
			7H	265	0	375	0	7h6h	0	-200	0	-236
			–	–	–	–	–	8e	-67	-317	-67	-442
			8G	367	32	507	32	8g	-32	-282	-32	-407
			–	–	–	–	–	9e8e	-67	-382	-67	-442
			8H	335	0	475	0	9g8g	-32	-347	-32	-407

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
45	90	2	–	–	–	–	–	3h4h	0	-90	0	-180
			–	–	–	–	–	4g	-38	-150	-38	-218
			4H	150	0	236	0	4h	0	-112	0	-180
			–	–	–	–	–	5g4g	-38	-178	-38	-218
			5G	228	38	338	38	5g6g	-38	-178	-38	-318
			5H	190	0	300	0	5h4h	0	-140	0	-180
			–	–	–	–	–	5h6h	0	-140	0	-280
			–	–	–	–	–	6e	-71	-251	-71	-351
			–	–	–	–	–	6f	-52	-232	-52	-332
			6G	274	38	413	38	6g	-38	-218	-38	-318
			6H	236	0	375	0	6h	0	-180	0	-280
			–	–	–	–	–	7e6e	-71	-295	-71	-351
			7G	338	38	513	38	7g6g	-38	-262	-38	-318
			7H	300	0	475	0	7h6h	0	-224	0	-280
			–	–	–	–	–	8e	-71	-351	-71	-521
			8G	413	38	638	38	8g	-38	-318	-38	-488
			–	–	–	–	–	9e8e	-71	-426	-71	-521
			8H	375	0	600	0	9g8g	-38	-393	-38	-488
45	90	3	–	–	–	–	–	3h4h	0	-106	0	-236
			–	–	–	–	–	4g	-48	-180	-48	-284
			4H	180	0	315	0	4h	0	-132	0	-236
			–	–	–	–	–	5g4g	-48	-218	-48	-284
			5G	272	48	448	48	5g6g	-48	-218	-48	-423
			5H	224	0	400	0	5h4h	0	-170	0	-236
			–	–	–	–	–	5h6h	0	-170	0	-375
			–	–	–	–	–	6e	-85	-297	-85	-460
			–	–	–	–	–	6f	-63	-275	-63	-438
			6G	328	48	548	48	6g	-48	-260	-48	-423
			6H	280	0	500	0	6h	0	-212	0	-375
			–	–	–	–	–	7e6e	-85	-350	-85	-460
			7G	403	48	678	48	7g6g	-48	-313	-48	-423
			7H	355	0	630	0	7h6h	0	-265	0	-375
			–	–	–	–	–	8e	-85	-420	-85	-685
			8G	498	48	848	48	8g	-48	-383	-48	-648
			–	–	–	–	–	9e8e	-85	-510	-85	-685
			8H	450	0	800	0	9g8g	-48	-473	-48	-648

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
45	90	4	–	–	–	–	–	3h4h	0	-118	0	-300
			–	–	–	–	–	4g	-60	-210	-60	-360
			4H	200	0	375	0	4h	0	-150	0	-300
			–	–	–	–	–	5g4g	-60	-250	-60	-360
			5G	310	60	535	60	5g6g	-60	-250	-60	-535
			5H	250	0	475	0	5h4h	0	-190	0	-300
			–	–	–	–	–	5h6h	0	-190	0	-475
			–	–	–	–	–	6e	-95	-331	-95	-570
			–	–	–	–	–	6f	-75	-311	-75	-550
			6G	375	60	660	60	6g	-60	-296	-60	-535
			6H	315	0	600	0	6h	0	-236	0	-475
			–	–	–	–	–	7e6e	-95	-395	-95	-570
			7G	460	60	810	60	7g6g	-60	-360	-60	-535
			7H	400	0	750	0	7h6h	0	-300	0	-475
			–	–	–	–	–	8e	-95	-470	-95	-845
			8G	560	60	1 010	60	8g	-60	-435	-60	-810
			–	–	–	–	–	9e8e	-95	-570	-95	-845
			8H	500	0	950	0	9g8g	-60	-535	-60	-810
45	90	5	–	–	–	–	–	3h4h	0	-125	0	-335
			–	–	–	–	–	4g	-71	-231	-71	-406
			4H	212	0	450	0	4h	0	-160	0	-335
			–	–	–	–	–	5g4g	-71	-271	-71	-406
			5G	336	71	631	71	5g6g	-71	-271	-71	-601
			5H	265	0	560	0	5h4h	0	-200	0	-335
			–	–	–	–	–	5h6h	0	-200	0	-530
			–	–	–	–	–	6e	-106	-356	-106	-636
			–	–	–	–	–	6f	-85	-335	-85	-615
			6G	406	71	781	71	6g	-71	-321	-71	-601
			6H	335	0	710	0	6h	0	-250	0	-530
			–	–	–	–	–	7e6e	-106	-421	-106	-636
			7G	496	71	971	71	7g6g	-71	-386	-71	-601
			7H	425	0	900	0	7h6h	0	-315	0	-530
			–	–	–	–	–	8e	-106	-506	-106	-956
			8G	601	71	1 191	71	8g	-71	-471	-71	-921
			–	–	–	–	–	9e8e	-106	-606	-106	-956
			8H	530	0	1 120	0	9g8g	-71	-571	-71	-921

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread				External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
45	90	5,5	–	–	–	–	–	3h4h	0	-132	0	-355
			–	–	–	–	–	4g	-75	-245	-75	-430
			4H	224	0	475	0	4h	0	-170	0	-355
			–	–	–	–	–	5g4g	-75	-287	-75	-430
			5G	355	75	675	75	5g6g	-75	-287	-75	-635
			5H	280	0	600	0	5h4h	0	-212	0	-355
			–	–	–	–	–	5h6h	0	-212	0	-560
			–	–	–	–	–	6e	-112	-377	-112	-672
			–	–	–	–	–	6f	-90	-355	-90	-650
			6G	430	75	825	75	6g	-75	-340	-75	-635
			6H	355	0	750	0	6h	0	-265	0	-560
			–	–	–	–	–	7e6e	-112	-447	-112	-672
			7G	525	75	1 025	75	7g6g	-75	-410	-75	-635
			7H	450	0	950	0	7h6h	0	-335	0	-560
			–	–	–	–	–	8e	-112	-537	-112	-1 012
			8G	635	75	1 255	75	8g	-75	-500	-75	-975
			–	–	–	–	–	9e8e	-112	-642	-112	-1 012
			8H	560	0	1 180	0	9g8g	-75	-605	-75	-975
45	90	6	–	–	–	–	–	3h4h	0	-140	0	-375
			–	–	–	–	–	4g	-80	-260	-80	-455
			4H	236	0	500	0	4h	0	-180	0	-375
			–	–	–	–	–	5g4g	-80	-304	-80	-455
			5G	380	80	710	80	5g6g	-80	-304	-80	-680
			5H	300	0	630	0	5h4h	0	-224	0	-375
			–	–	–	–	–	5h6h	0	-224	0	-600
			–	–	–	–	–	6e	-118	-398	-118	-718
			–	–	–	–	–	6f	-95	-375	-95	-695
			6G	455	80	880	80	6g	-80	-360	-80	-680
			6H	375	0	800	0	6h	0	-280	0	-600
			–	–	–	–	–	7e6e	-118	-473	-118	-718
			7G	555	80	1 080	80	7g6g	-80	-435	-80	-680
			7H	475	0	1 000	0	7h6h	0	-355	0	-600
			–	–	–	–	–	8e	-118	-568	-118	-1 068
			8G	680	80	1 330	80	8g	-80	-530	-80	-1 030
			–	–	–	–	–	9e8e	-118	-678	-118	-1 068
			8H	600	0	1 250	0	9g8g	-80	-640	-80	-1 030

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
90	180	2	–	–	–	–	–	3h4h	0	-95	0	-180
			–	–	–	–	–	4g	-38	-156	-38	-218
			4H	160	0	236	0	4h	0	-118	0	-180
			–	–	–	–	–	5g4g	-38	-188	-38	-218
			5G	238	38	338	38	5g6g	-38	-188	-38	-318
			5H	200	0	300	0	5h4h	0	-150	0	-180
			–	–	–	–	–	5h6h	0	-150	0	-280
			–	–	–	–	–	6e	-71	-261	-71	-351
			–	–	–	–	–	6f	-52	-242	-52	-332
			6G	288	38	413	38	6g	-38	-228	-38	-318
			6H	250	0	375	0	6h	0	-190	0	-280
			–	–	–	–	–	7e6e	-71	-307	-71	-351
			7G	353	38	513	38	7g6g	-38	-274	-38	-318
			7H	315	0	475	0	7h6h	0	-236	0	-280
			–	–	–	–	–	8e	-71	-371	-71	-521
			8G	438	38	638	38	8g	-38	-338	-38	-488
			–	–	–	–	–	9e8e	-71	-446	-71	-521
			8H	400	0	600	0	9g8g	-38	-413	-38	-488
90	180	3	–	–	–	–	–	3h4h	0	-112	0	-236
			–	–	–	–	–	4g	-48	-188	-48	-284
			4H	190	0	315	0	4h	0	-140	0	-236
			–	–	–	–	–	5g4g	-48	-228	-48	-284
			5G	284	48	448	48	5g6g	-48	-228	-48	-423
			5H	236	0	400	0	5h4h	0	-180	0	-236
			–	–	–	–	–	5h6h	0	-180	0	-375
			–	–	–	–	–	6e	-85	-309	-85	-460
			–	–	–	–	–	6f	-63	-287	-63	-438
			6G	348	48	548	48	6g	-48	-272	-48	-423
			6H	300	0	500	0	6h	0	-224	0	-375
			–	–	–	–	–	7e6e	-85	-365	-85	-460
			7G	423	48	678	48	7g6g	-48	-328	-48	-423
			7H	375	0	630	0	7h6h	0	-280	0	-375
			–	–	–	–	–	8e	-85	-440	-85	-685
			8G	523	48	848	48	8g	-48	-403	-48	-648
			–	–	–	–	–	9e8e	-85	-535	-85	-685
			8H	475	0	800	0	9g8g	-48	-498	-48	-648

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
90	180	4	–	–	–	–	–	3h4h	0	-125	0	-300
			–	–	–	–	–	4g	-60	-220	-60	-360
			4H	212	0	375	0	4h	0	-160	0	-300
			–	–	–	–	–	5g4g	-60	-260	-60	-360
			5G	325	60	535	60	5g6g	-60	-260	-60	-535
			5H	265	0	475	0	5h4h	0	-200	0	-300
			–	–	–	–	–	5h6h	0	-200	0	-475
			–	–	–	–	–	6e	-95	-345	-95	-570
			–	–	–	–	–	6f	-75	-325	-75	-550
			6G	395	60	660	60	6g	-60	-310	-60	-535
			6H	335	0	600	0	6h	0	-250	0	-475
			–	–	–	–	–	7e6e	-95	-410	-95	-570
			7G	485	60	810	60	7g6g	-60	-375	-60	-535
			7H	425	0	750	0	7h6h	0	-315	0	-475
			–	–	–	–	–	8e	-95	-495	-95	-845
			8G	590	60	1 010	60	8g	-60	-460	-60	-810
			–	–	–	–	–	9e8e	-95	-595	-95	-845
			8H	530	0	950	0	9g8g	-60	-560	-60	-810
90	180	6	–	–	–	–	–	3h4h	0	-150	0	-375
			–	–	–	–	–	4g	-80	-270	-80	-455
			4H	250	0	500	0	4h	0	-190	0	-375
			–	–	–	–	–	5g4g	-80	-316	-80	-455
			5G	395	80	710	80	5g6g	-80	-316	-80	-680
			5H	315	0	630	0	5h4h	0	-236	0	-375
			–	–	–	–	–	5h6h	0	-236	0	-600
			–	–	–	–	–	6e	-118	-418	-118	-718
			–	–	–	–	–	6f	-95	-395	-95	-695
			6G	480	80	880	80	6g	-80	-380	-80	-680
			6H	400	0	800	0	6h	0	-300	0	-600
			–	–	–	–	–	7e6e	-118	-493	-118	-718
			7G	580	80	1 080	80	7g6g	-80	-455	-80	-680
			7H	500	0	1 000	0	7h6h	0	-375	0	-600
			–	–	–	–	–	8e	-118	-593	-118	-1 068
			8G	710	80	1 330	80	8g	-80	-555	-80	-1 030
			–	–	–	–	–	9e8e	-118	-718	-118	-1 068
			8H	630	0	1 250	0	9g8g	-80	-680	-80	-1 030

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
90	180	8	–	–	–	–	–	3h4h	0	-170	0	-450
			–	–	–	–	–	4g	-100	-312	-100	-550
			4H	280	0	630	0	4h	0	-212	0	-450
			–	–	–	–	–	5g4g	-100	-365	-100	-550
			5G	455	100	900	100	5g6g	-100	-365	-100	-810
			5H	355	0	800	0	5h4h	0	-265	0	-450
			–	–	–	–	–	5h6h	0	-265	0	-710
			–	–	–	–	–	6e	-140	-475	-140	-850
			–	–	–	–	–	6f	-118	-453	-118	-828
			6G	550	100	1 100	100	6g	-100	-435	-100	-810
			6H	450	0	1 000	0	6h	0	-335	0	-710
			–	–	–	–	–	7e6e	-140	-565	-140	-850
			7G	660	100	1 350	100	7g6g	-100	-525	-100	-810
			7H	560	0	1 250	0	7h6h	0	-425	0	-710
			–	–	–	–	–	8e	-140	-670	-140	-1 320
			8G	810	100	1 700	100	8g	-100	-630	-100	-1 280
			–	–	–	–	–	9e8e	-140	-810	-140	-1 320
			8H	710	0	1 600	0	9g8g	-100	-770	-100	-1 280
180	355	3	–	–	–	–	–	3h4h	0	-125	0	-236
			–	–	–	–	–	4g	-48	-208	-48	-284
			4H	212	0	315	0	4h	0	-160	0	-236
			–	–	–	–	–	5g4g	-48	-248	-48	-284
			5G	313	48	448	48	5g6g	-48	-248	-48	-423
			5H	265	0	400	0	5h4h	0	-200	0	-236
			–	–	–	–	–	5h6h	0	-200	0	-375
			–	–	–	–	–	6e	-85	-335	-85	-460
			–	–	–	–	–	6f	-63	-313	-63	-438
			6G	383	48	548	48	6g	-48	-298	-48	-423
			6H	335	0	500	0	6h	0	-250	0	-375
			–	–	–	–	–	7e6e	-85	-400	-85	-460
			7G	473	48	678	48	7g6g	-48	-363	-48	-423
			7H	425	0	630	0	7h6h	0	-315	0	-375
			–	–	–	–	–	8e	-85	-485	-85	-685
			8G	578	48	848	48	8g	-48	-448	-48	-648
			–	–	–	–	–	9e8e	-85	-585	-85	-685
			8H	530	0	800	0	9g8g	-48	-548	-48	-648

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
180	355	4	–	–	–	–	–	3h4h	0	-140	0	-300
			–	–	–	–	–	4g	-60	-240	-60	-360
			4H	236	0	375	0	4h	0	-180	0	-300
			–	–	–	–	–	5g4g	-60	-284	-60	-360
			5G	360	60	535	60	5g6g	-60	-284	-60	-535
			5H	300	0	475	0	5h4h	0	-224	0	-300
			–	–	–	–	–	5h6h	0	-224	0	-475
			–	–	–	–	–	6e	-95	-375	-95	-570
			–	–	–	–	–	6f	-75	-355	-75	-550
			6G	435	60	660	60	6g	-60	-340	-60	-535
			6H	375	0	600	0	6h	0	-280	0	-475
			–	–	–	–	–	7e6e	-95	-450	-95	-570
			7G	535	60	810	60	7g6g	-60	-415	-60	-535
			7H	475	0	750	0	7h6h	0	-355	0	-475
			–	–	–	–	–	8e	-95	-545	-95	-845
			8G	660	60	1 010	60	8g	-60	-510	-60	-810
			–	–	–	–	–	9e8e	-95	-655	-95	-845
			8H	600	0	950	0	9g8g	-60	-620	-60	-810
180	355	6	–	–	–	–	–	3h4h	0	-160	0	-375
			–	–	–	–	–	4g	-80	-280	-80	-455
			4H	265	0	500	0	4h	0	-200	0	-375
			–	–	–	–	–	5g4g	-80	-330	-80	-455
			5G	415	80	710	80	5g6g	-80	-330	-80	-680
			5H	335	0	630	0	5h4h	0	-250	0	-375
			–	–	–	–	–	5h6h	0	-250	0	-600
			–	–	–	–	–	6e	-118	-433	-118	-718
			–	–	–	–	–	6f	-95	-410	-95	-695
			6G	505	80	880	80	6g	-80	-395	-80	-680
			6H	425	0	800	0	6h	0	-315	0	-600
			–	–	–	–	–	7e6e	-118	-518	-118	-718
			7G	610	80	1 080	80	7g6g	-80	-480	-80	-680
			7H	530	0	1 000	0	7h6h	0	-400	0	-600
			–	–	–	–	–	8e	-118	-618	-118	-1 068
			8G	750	80	1 330	80	8g	-80	-580	-80	-1 030
			–	–	–	–	–	9e8e	-118	-748	-118	-1 068
			8H	670	0	1 250	0	9g8g	-80	-710	-80	-1 030

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Table 1 *(continued)*

Basic major diameter		Pitch	Internal thread					External thread				
over	up to		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter	
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm
180	355	8	–	–	–	–	–	3h4h	0	-180	0	-450
			–	–	–	–	–	4g	-100	-324	-100	-550
			4H	300	0	630	0	4h	0	-224	0	-450
			–	–	–	–	–	5g4g	-100	-380	-100	-550
			5G	475	100	900	100	5g6g	-100	-380	-100	-810
			5H	375	0	800	0	5h4h	0	-280	0	-450
			–	–	–	–	–	5h6h	0	-280	0	-710
			–	–	–	–	–	6e	-140	-495	-140	-850
			–	–	–	–	–	6f	-118	-473	-118	-828
			6G	575	100	1 100	100	6g	-100	-455	-100	-810
			6H	475	0	1 000	0	6h	0	-355	0	-710
			–	–	–	–	–	7e6e	-140	-590	-140	-850
			7G	700	100	1 350	100	7g6g	-100	-550	-100	-810
			7H	600	0	1 250	0	7h6h	0	-450	0	-710
			–	–	–	–	–	8e	-140	-700	-140	-1 320
			8G	850	100	1 700	100	8g	-100	-660	-100	-1 280
			–	–	–	–	–	9e8e	-140	-850	-140	-1 320
			8H	750	0	1 600	0	9g8g	-100	-810	-100	-1 280

NOTE "*ES*" and "*es*" are the symbols of "upper deviation"; "*EI*" and "*ei*" are the symbols of "lower deviation".

Bibliography

[1] ISO 68-1, *ISO general purpose screw threads — Basic profile — Part 1: Metric screw threads*

[2] ISO 261, *ISO general purpose metric screw threads — General plan*

[3] ISO 965-1, *ISO general purpose metric screw threads — Tolerances — Part 1: Principles and basic data*

This page has been intentionally left blank

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act*, 2016 to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the website- www.bis.gov.in or www.standardsbis.in.

This Indian Standard has been developed from Doc No.: PGD 37 (18341).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002
Telephones: 2323 0131, 2323 3375, 2323 9402 *Website*: www.bis.gov.in

Regional Offices:		*Telephones*
Central	: 601/A, Konnectus Tower -1, 6th Floor, DMRC Building, Bhavbhuti Marg, New Delhi 110002	2323 7617
Eastern	: 8th Floor, Plot No 7/7 & 7/8, CP Block, Sector V, Salt Lake, Kolkata, West Bengal 700091	2367 0012 2320 9474
Northern	: Plot No. 4-A, Sector 27-B, Madhya Marg, Chandigarh 160019	265 9930
Southern	: C.I.T. Campus, IV Cross Road, Taramani, Chennai 600113	2254 1442 2254 1216
Western	: Plot No. E-9, Road No.-8, MIDC, Andheri (East), Mumbai 400093	2821 8093

Branches : AHMEDABAD. BENGALURU. BHOPAL. BHUBANESHWAR. CHANDIGARH. CHENNAI. COIMBATORE. DEHRADUN. DELHI. FARIDABAD. GHAZIABAD. GUWAHATI. HIMACHAL PRADESH. HUBLI. HYDERABAD. JAIPUR. JAMMU & KASHMIR. JAMSHEDPUR. KOCHI. KOLKATA. LUCKNOW. MADURAI. MUMBAI. NAGPUR. NOIDA. PANIPAT. PATNA. PUNE. RAIPUR. RAJKOT. SURAT. VISAKHAPATNAM.

Published by BIS, New Delhi