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SPECIFICATION FOR ISO METRIC SCREW THREADS

PART V — TOLERANCES

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BUREAU OF CEYLON STANDARDS

SPECIFICATION FOR ISO METRIC SCREW THREADS

PART V — TOLERANCES

S. L. S. 268 : 1974

Gr.11

Price Rs. 24.00

BUREAU OF CEYLON STANDARDS
53, DHARMAPALA MAWATHA,
COLOMBO-3.

Sri Lanka Standards are subject to periodical revision in order to accommodate the progress made by industry. Suggestions for improvement will be recorded and brought to the notice of the Committees to which the revisions are entrusted.

This Standard does not purport to include all the necessary provisions of a contract.

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SRI LANKA STANDARD SPECIFICATION FOR ISO METRIC SCREW THREADS

Part V: Tolerances

FOREWORD

This Sri Lanka Standard Specification was prepared by the Drafting Committee on Metric Screw Threads. It was approved by the Mechanical Engineering Divisional Committee of the Bureau of Ceylon Standards and was authorised for adoption and publication by the council of the Bureau on 21st May, 1974.

Although this standard is not a revision of the C.S. 96 "Specification for Dimensions of Parallel Coarse Screw Thread of Whitworth form", this standard will replace it in due course.

This Standard is being issued in different parts as under:

Part	I:	Basic and Design Profiles
Part	II:	Pitch/Diameter Combinations
Part	III:	Basic Dimensions
Part	IV:	Tolerancing System
Part	V:	Tolerances
Part	VI:	Limits of Sizes for Commercial Bolts and Nuts

This standard (Part V) is based on ISO/R 965/III "ISO General Purpose Metric Screw Threads Tolerances, Deviations for Constructional Threads" issued by the International Standards Organisation.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value observed or calculated, expressing the result of a test shall be rounded off in accordance with C.S. 102. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

This standard (Part V) tabulates tolerances for ISO Metric Screw Threads for the tolerance classes covered in Part IV of the standard in the diameter range 1 to 300 mm. The tolerances have been arrived at based on the tolerancing system specified in Part IV of this standard.

2. DESIGNATIONS

2.1 Tolerances — Tolerances, according to this standard, shall be designated by the size and the relevant tolerance class as given under the heading 'Tolerance Class' in Table 1.

Examples: Nut Thread M6—6H
Bolt Thread M6—5g6g

2.2 Class of Fit — A fit between threaded parts shall be indicated by the nut thread tolerance class followed by the bolt thread tolerance class separated by a stroke.

Example: M6 — 6H/5g6g

3. TOLERANCES

3.1 The location of the tolerance elements for bolt and nut threads shall be as given in Fig 1. The values of deviations for the tolerance classes for nut and bolt threads are given in Table 1.

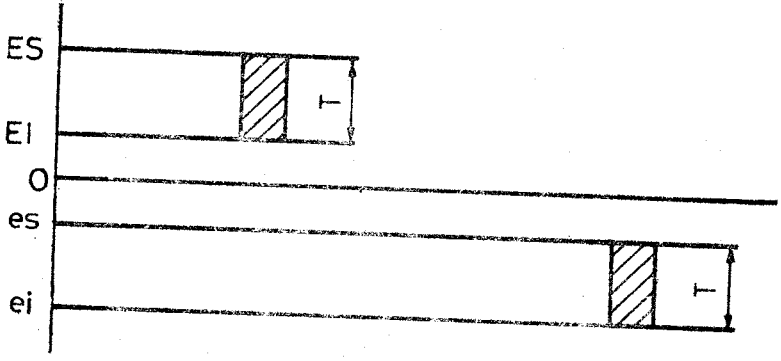

Fig. 1—Location of Tolerance Elements

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

3.3 The values for the minor diameter of the bolt thread given in Table 1 are calculated on the basis of an H/6 truncation and are to be used for stress calculations etc.

TABLE 1 — DEVIATIONS

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
0.99	1.4	0.2	—	—	—	—	—	3h4h	0	−36	0	−24	−29
			4H	+40	0	+38	0	4h	0	−36	0	−30	−29
			5G	—	—	—	—	5g6g	−17	−73	−17	-55	−46
			5H	—	—	—	—	5h4h	0	−36	0	−38	−29
			—	—	—	—	—	5h6h	0	−56	0	−38	−29
			—	—	—	—	—	6e	—	—	—	—	—
			6G	—	—	—	—	6g	−17	−73	−17	−65	−46
			6H	—	—	—	—	6h	0	−56	0	−48	−29
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	—	—	—	—	—
			7H	—	—	—	—	7h6h	—	—	—	—	—
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.25	—	—	—	—	—	3h4h	0	−42	0	−26	−36

(*Continued*)

ES, es=upper deviation
EI, ei=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations. etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
0.99	1.4	0.25	4H	+45	0	+45	—	4h	0	−42	0	−34	−36
			5G	+74	+18	+74	+18	5g6g	−18	−85	−18	−60	−54
			5H	+56	0	+56	0	5h4h	0	−42	0	−42	−36
			—	—	—	—	0	5h6h	0	−67	0	−42	−36
			—	—	—	—	—	6e	—	—	—	—	—
			6G	—	—	—	—	6g	−18	−85	−18	−71	−54
			6H	—	—	—	—	6h	0	−67	0	−53	−36
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	—	—	—	—	—
			7H	—	—	—	—	7h6h	—	—	—	—	—
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.3	—	—	—	—	—	3h4h	0	−48	0	−28	−43
			4H	+48	0	+53	0	4h	0	−48	0	−36	−43
			5G	+78	+18	+85	+18	5g6g	−18	−93	−18	−63	−61

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
0.99	1.4	0.3	5H	+60	0	+67	0	5h4h	0	−48	0	−45	−43
			—	—	—	—	—	5h6h	0	−75	0	−45	−43
			—	—	—	—	—	6e	—	—	—	—	—
			6G	+93	+18	+103	+18	6g	−18	−93	−18	−74	−61
			6H	+75	0	+85	0	6h	0	−75	0	−56	−43
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	—	—	—	—	—
			7H	—	—	—	—	7h6h	—	—	—	—	—
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
1.4	2.8	0.2	—	—	—	—	—	3h4h	0	−35	0	−25	−29
			4H	+42	0	+38	0	4h	0	−33	0	−32	−29
			5G	—	—	—	—	5g6g	−17	−73	−17	−57	−46
			5H	—	—	—	—	5h4h	0	−36	0	−40	−29
			—	—	—	—	—	5h6h	0	−56	0	−40	−29

(*Continued*)

ES, es=upper deviation
EI, ei=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Major Dia		Pitch Dia		Minor Dia
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	(for stress calculations, etc.)
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
1.4	2.8	0.2	—	—	—	—	—	6e	—	—	—	—	—
			6G	—	—	—	—	6g	−17	−73	−17	−67	−45
			6H	—	—	—	—	6h	0	−56	0	−50	−29
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	—	—	—	—	—
			7H	—	—	—	—	7h6h	—	—	—	—	—
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	
		0.25	—	—	—	—	—	3h4h	0	−42	0	−28	−33
			4H	+48	0	+45	0	4h	0	−42	0	−35	−33
			5G	+78	+18	+74	+18	5g6g	−18	−85	−18	−63	−54
			5H	+60	0	+56	0	5h4h	0	−42	0	−45	−33
			—	—	—	—	—	5h6h	0	−67	0	−45	−33
			—	—	—	—	—	6e	—	—	—	—	—
			6G	—	—	—	—	6g	−18	−63	−18	−74	−54

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance Class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
1.4	2.8	0.25	6H	—	—	—	—	6h	0	−67	0	−56	−33
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	—	—	—	—	—
			7H	—	—	—	—	7h6h	—	—	—	—	—
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.35	—	—	—	—	—	3h4h	0	−53	0	−32	−51
			4H	+53	0	+63	0	4h	0	−53	0	−40	−51
			5G	+86	+19	+99	+19	5g6g	−19	−104	−19	−69	−70
			5H	+67	0	+80	0	5h4h	0	−53	0	−50	−51
			—	—	—	—	—	5h6h	09	−85	0	−50	−51
			—	—	—	—	—	6e	—	—	—	—	—
			6G	+104	+19	+119	+19	6g	−19	−104	−19	−62	−70
			6H	+85	0	+100	0	6h	0	−85	0	−63	−51
			—	—	—	—	—	7e6e	—	—	—	—	—

(*Continued*)

ES. *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations. etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
1.4	2.8	0.35	7G	—	—	—	—	7g6g	-19	-104	-19	-99	-70
			7H	—	—	—	—	7h6h	0	-85	0	-80	-51
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.4	—	—	—	—	—	3h4h	0	-60	0	-34	-58
			4H	+56	0	+71	0	4h	0	-60	0	-42	-58
			5G	+90	+19	+109	+19	5g6g	-19	-114	-19	-72	-77
			5H	+71	0	+90	0	5h4h	0	-60	0	-53	-58
			—	—	—	—	—	5h6h	0	-95	0	-53	-58
			—	—	—	—	—	6e	—	—	—	—	—
			6G	+109	+19	+131	+19	6g	-19	-114	-19	-86	-77
			6H	+90	0	+112	0	6h	0	-95	0	-67	-58
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	-19	-114	-19	-104	-77
			7H	—	—	—	—	7h6h	0	-95	0	-85	-58

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
1.4	2.8	0.4	8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.45	—	—	—	—	—	3h4h	0	−63	0	−35	−65
			4H	+60	0	+80	0	4h	0	−63	0	−45	−65
			5G	+95	+20	+120	+20	5g6g	−20	−120	−20	−75	−85
			5H	+75	0	+100	0	5h4h	0	−63	0	−56	−65
			—	—	—	—	—	5h6h	0	−100	0	−56	−65
			—	—	—	—	—	6e	—	—	—	—	—
			6G	+115	+20	+145	+20	6g	−20	−120	−20	−91	−85
			6H	+95	0	+125	0	6h	0	−100	0	−71	−65
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	−20	−120	−20	−110	−85
			7H	—	—	—	—	7h6h	0	−100	0	−90	−85
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Major Dia		Pitch Dia		Minor Dia (for stress calculations. etc.
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
2.8	5.6	0.35	—	—	—	—	—	3h4h	0	−53	0	−34	−51
			4H	+56	0	+63	0	4h	0	−53	0	−42	−51
			5G	−90	+19	+99	+19	5g6g	−19	−104	−19	−72	−71
			5H	+71	0	+80	0	5h4h	0	−53	0	−53	−51
			—	—	—	—	—	5h6h	0	−85	0	−53	−51
			—	—	—	—	—	6e	—	—	—	—	—
			6G	+109	+19	+119	+19	6g	−19	−104	−19	−86	−70
			6H	+90	0	+100	0	6h	0	−85	0	−67	−51
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	−19	−104	−19	−104	−70
			7H	—	—	—	—	7h6h	0	−85	0	−85	−51
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.5	—	—	—	—	—	3h4h	0	−67	0	−38	−72
			4H	+63	0	+90	0	4h	0	−67	0	−48	−72

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
2.8	5.6	0.5	5G	+100	+20	+132	+20	5g6g	-20	-126	-20	-80	-92
			5H	+80	0	+112	0	5h4h	0	-67	0	-60	-72
			—	—	—	—	—	5h6h	0	-105	0	-60	-72
			—	—	—	—	—	6e	-50	-156	-50	-125	-122
			6G	+120	+20	+160	+20	6g	-20	-126	-20	-95	-92
			6H	+100	0	+140	0	6h	0	-105	0	-75	-72
			—	—	—	—	—	7e6e	-50	-156	-50	-145	-122
			7G	+145	+20	+200	+20	7g6g	-20	-126	-20	-115	-92
			7H	+125	0	+180	0	7h6h	0	-106	0	-95	-72
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.6	—	—	—	—	—	3h4h	0	-80	0	-42	-87
			4H	+71	0	+100	0	4h	0	-80	0	-53	-87
			5G	+111	+21	+146	+21	5g6g	-21	-146	-21	-86	-108
			5H	+90	0	+125	0	5h4h	0	-80	0	-67	-87

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Pitch Dia		Major Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
2.8	5.6	0.6	—	—	—	—	—	5h6h	0	−125	0	−67	−87
			—	—	—	—	—	6e	−53	−178	−53	−138	−140
			6G	+133	+21	+181	+21	6g	−21	−146	−21	−106	−108
			6H	+112	0	+160	0	6h	0	−125	0	−85	−87
			—	—	—	—	—	7e6e	−53	−178	−53	−159	−140
			7G	+161	+21	+221	+21	7g6g	−21	−146	−21	−127	−108
			7H	+140	0	+200	0	7h6h	0	−125	0	−103	−87
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.7	—	—	—	—	—	3h4h	0	−90	0	−45	−101
			4H	+75	0	+112	0	4h	0	−90	0	−56	−101
			5G	+117	+22	+162	+22	5g6g	−22	−162	−22	−93	−123
			5H	+95	0	+140	0	5h4h	0	−90	0	−71	−101
			—	—	—	—	—	5h6h	0	−140	0	−71	−101
			—	—	—	—	—	6e	−56	−196	−56	−145	−157

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Major Dia		Pitch Dia		Minor Dia
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	for stress calculations, etc.)
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
2.8	5.6	0.7	6G	+140	+22	+202	+22	6g	-22	-162	-22	-112	-123
			6H	+118	0	+180	0	6h	0	-140	0	-90	-101
			—	—	—	—	—	7e6e	-55	-193	-56	-188	-157
			7G	+172	+22	+246	+22	7g6g	-22	-162	-22	-134	-123
			7H	+150	0	+224	0	7h6h	0	-140	0	-112	-101
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.75	—	—	—	—	—	3h4h	0	-90	0	-45	-108
			4H	+75	0	+118	—	4h	0	-90	0	-56	-108
			5G	+117	+22	+172	+22	5g6g	-22	-162	-22	-93	-130
			5H	+95	0	+150	0	5h4h	0	-90	0	-71	-108
			—	—	—	—	—	5h6h	0	-140	0	-71	-108
			—	—	—	—	—	6e	-56	-196	-56	-143	-164
			6G	+140	+22	+212	+22	6g	-22	-162	-22	-112	-130
			6H	+118	0	+190	0	6h	0	-140	0	-90	-108

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
2.8	5.6	0.75	—	—	—	—	—	7e6e	−56	−196	−56	−168	−164
			7G	+172	+22	+258	+22	7g6g	−22	−162	−22	−134	−130
			7H	+150	0	+235	0	7h6h	0	−140	0	−112	−108
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0.8	—	—	—	—	—	3h4h	0	−95	0	−48	−116
			4H	+80	0	+125	0	4h	0	−95	0	−60	−116
			5G	+124	+24	+184	+24	5g6g	−24	−174	−24	−99	−140
			5H	+100	0	+160	0	5h4h	0	−95	0	−75	−116
			—	—	—	—	—	5h6h	0	−150	0	−75	−116
			—	—	—	—	—	6e	−60	−210	−60	−155	−176
			6G	+149	+24	+224	+24	6g	−24	−174	−24	−119	−140
			6H	+125	0	+200	0	6h	0	−150	0	−95	−116
			—	—	—	—	—	7e6e	−60	−210	−60	−178	−176
			7G	+184	+24	+274	+24	7g6g	−24	−174	−24	−142	−140

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
2.8	5.6	0.8	7H	+160	0	+250	0	7h6h	0	−150	0	−118	−116
			8G	+224	+24	+339	+24	8g	−24	−260	−24	−174	−140
			8H	+200	0	+315	0	9g8g	−24	−260	−24	−214	−140
5.6	11.2	0.75	—	—	—	—	—	3h4h	0	−90	0	−50	−103
			4H	+ 85	0	+118	0	4h	0	−90	0	−63	−103
			5G	+128	+22	+172	+22	5g6g	−22	−162	−22	−102	−130
			5H	+106	0	+150	0	5h4h	0	−90	0	−80	−103
			—	—	—	—	—	5h6h	0	−140	0	−80	−103
			—	—	—	—	—	6e	−56	−196	−56	−156	−164
			6G	+154	+22	+212	+22	6g	−22	−162	−22	−122	−130
			6H	+132	0	+190	0	6h	0	−140	0	−100	−108
			—	—	—	—	—	7e6e	−56	−193	−56	−181	−164
			7G	+192	+22	+258	+22	7g6g	−22	−162	−22	−147	−130
			7H	+170	0	+236	0	7h6h	0	−140	0	−125	−108
			8G	—	—	—	—	8g	—	—	—	—	—

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
5.6	11.2	0.75	8H	—	—	—	—	9g8g	—	—	—	—	—
		1	—	—	—	—	—	3h4h	0	−112	0	−56	−144
			4H	+ 95	0	+150	0	4h	0	−112	0	−71	−144
			5G	+144	+26	+216	+26	5g6g	−26	−206	−26	−116	−170
			5H	+118	0	+190	0	5h4h	0	−112	0	−90	−144
			—	—	—	—	—	5h6h	0	−180	0	−90	−144
			—	—	—	—	—	6e	−60	−240	−60	−172	−204
			6G	+176	+26	+262	+26	6g	−26	−206	−26	−138	−170
			6H	+150	0	+236	0	6h	0	−180	0	−112	−144
			—	—	—	—	—	7e6e	−60	−240	−60	−200	−204
			7G	+216	+26	+326	+26	7e6g	−26	−206	−26	−166	−170
			7H	+190	0	+300	0	7h6h	0	−180	0	−140	−144
			8G	+262	+26	+401	+26	8g	−26	−306	−26	−206	−170
			8H	+236	0	+375	0	9g8g	−26	−306	−26	−250	−170
		1.25	—	—	—	—	—	3h4h	0	−132	0	−60	−180

(*Continued*)

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Pitch Dia		Major Dia		Minor Dia
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	(for stress calculations, etc.)
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
5.6	11.2	1.25	4H	+100	0	+170	0	4h	0	−132	0	−75	−180
			5G	+153	+28	+240	+28	5g6g	−28	−240	−28	−123	−208
			5H	+125	0	+212	0	5h4h	0	−132	0	−95	−180
			—	—	—	—	—	5h6h	0	−212	0	−95	−180
			—	—	—	—	—	6e	−63	−275	−63	−181	−243
			6G	+188	+28	+293	+28	6g	−28	−240	−28	−146	−208
			6H	+160	0	+265	0	6h	0	−212	0	−118	−180
			—	—	—	—	—	7e6e	−63	−275	−63	−213	−243
			7G	+228	+28	+363	+28	7g6g	−28	−240	−28	−178	−208
			7H	+200	0	+335	0	7h6h	0	−212	0	−150	−180
			8G	+278	+28	+453	+28	8g	−28	−363	−28	−218	−208
			8H	+250	0	+425	0	9g8g	−28	−363	−28	−264	−208
		1.5	—	—	—	—	—	3h4h	0	−150	0	−67	−217
			4H	+112	0	+190	0	4h	0	−150	0	−85	−217
			5G	+172	+32	+268	+32	5g6g	−32	−268	−32	−138	−249

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
5.6	11.2	1.5	5H	+140	0	+236	0	5h4h	0	−150	0	−106	−217
			—	—	—	—	—	5h6h	0	−236	0	−106	−217
			—	—	—	—	—	6e	−67	−303	−67	−199	−284
			6G	+212	+32	+332	+32	6g	−32	−268	−32	−164	−249
			6H	+180	0	+300	0	6h	0	−236	0	−132	−217
			—	—	—	—	—	7e6e	−67	−303	−67	−237	−284
			7G	+256	+32	+407	+32	7g6g	−32	−268	−32	−202	−249
			7H	+224	0	+375	0	7h6h	0	−236	0	−170	−217
			8G	+312	+32	+507	+32	8g	−32	−407	−32	−244	−249
			8H	+280	0	+475	0	9g8g	−32	−407	−32	−297	−249
11.2	22.4	1	—	—	—	—	—	3h4h	0	−112	0	−60	−144
			4H	+100	0	+150	0	4h	0	−112	0	−75	−144
			5G	+151	+26	+216	+26	5g6g	−26	−206	−26	−121	−170
			5H	+125	0	+190	0	5h4h	0	−112	0	−95	−144
			—	—	—	—	—	5h6h	0	−180	0	−95	−144

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
			Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Pitch Dia		Major Dia		Minor Dia (for stress calculations, etc.)
over	up to and incl.			*ES*	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
11.2	22.4	1	—	—	—	—	—	6e	−60	−240	−60	−178	−204
			6G	+186	+26	+262	+26	6g	−26	−206	−26	−144	−170
			6H	+160	0	+236	0	6h	0	−180	0	−118	−144
			—	—	—	—	—	7e6e	−60	−240	−60	−210	−204
			7G	+226	+26	+326	+26	7g6g	−26	−206	−26	−176	−170
			7H	+200	0	+300	0	7h6h	0	−180	0	−150	−144
			8G	+276	+26	+401	+26	8g	−26	−306	−26	−216	−170
			8H	+250	0	+375	0	9g8g	−26	−306	−26	−262	−170
		1.25	—	—	—	—	—	3h4h	0	−132	0	−67	−180
			4H	+112	0	+170	0	4h	0	−132	0	−85	−180
			5G	+168	+28	+240	+28	5g6g	−28	−240	−28	−131	−208
			5H	+140	0	+212	0	5h4h	0	−132	0	−106	−180
			—	—	—	—	—	5h6h	0	−212	0	−106	−180
			—	—	—	—	—	6e	−63	−275	−63	−195	−243
			6G	+208	+28	+293	+28	6g	−28	−240	−28	−160	−208

(*Continued*)

ES, *es*=upper deviation
EI, *ei* =lower deviation

Basic major diameter		Pitch	Nut thread				Bolt thread					
				Pitch Dia		Minor Dia		Major Dia		Piteh Dia		Minor Dia
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	(for stress calculations, etc.)
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
11.2	22.4	1.25	6H	+180	0	+265	0	6h	0	-212	0	-132	-180
			—	—	—	—	—	7e6e	-63	-275	-63	-233	-243
			7G	+252	+28	+363	+28	7g6g	-28	-240	-28	-198	-208
			7H	+224	0	+335	0	7h6h	0	-212	0	-170	-180
			8G	+308	+28	+453	+28	8g	-28	-363	-28	-240	-208
			8H	+280	0	+425	0	9g8g	-28	-363	-28	-293	-208
		1.5	—	—	—	—	—	3h4h	0	-150	0	-71	-217
			4H	+118	0	+190	0	4h	0	-150	0	-90	-217
			5G	+182	+32	+268	+32	5g6g	-32	-268	-32	-144	-249
			5H	+150	0	+236	0	5h4h	0	-150	0	-112	-217
			—	—	—	—	—	5h6h	0	-236	0	-112	-217
			—	—	—	—	—	6e	-67	-303	-67	-207	-284
			6G	+222	+32	+332	+32	6g	-32	-268	-32	-172	-249
			6H	+190	0	+300	0	6h	0	-236	0	-140	-217
			—	—	—	—	—	7e6e	-67	-303	-67	-247	-284

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
11.2	22.4	1.5	7G	+268	+32	+407	+32	7g6g	−32	−268	−32	−212	−249
			7H	+236	0	+375	0	7h6h	0	−236	0	−180	−217
			8G	+332	+32	+507	+32	8g	−32	−407	−32	−256	−249
			8H	+300	0	+475	0	9g8g	−32	−407	−32	−312	−249
		1.75	—	—	—	—	—	3h4h	0	−170	0	−75	−253
			4H	+125	0	+212	0	4h	0	−170	0	−95	−253
			5G	+194	+34	+299	+34	5g6g	−34	−299	−34	−152	−287
			5H	+160	0	+265	0	5h4h	0	−170	0	−118	−253
			—	—	—	—	—	5h6h	0	−265	0	−118	−253
			—	—	—	—	—	6e	−71	−336	−71	−221	−324
			6G	+234	+34	+369	+34	6g	−34	−299	−34	−184	−287
			6H	+200	0	+335	0	6h	0	−265	0	−150	−253
			—	—	—	—	—	7e6e	−71	−336	−71	−261	−324
			7G	+284	+34	+459	+34	7g6g	−34	−299	−34	−224	−287
			7H	+250	0	+425	0	7h6h	0	−265	0	−190	−253

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
11.2	22.4	1.75	8G	+349	+34	+564	+34	8g	−34	−459	−34	−270	−287
			8H	+315	0	+530	0	9g8g	−34	−459	−34	−334	−287
		2	—	—	—	—	—	3h4h	0	−180	0	−80	−289
			4H	+132	0	+236	0	4h	0	−180	0	−100	−289
			5G	+208	+38	+338	+38	5g6g	−38	−318	−38	−163	−327
			5H	+170	0	+300	0	5h4h	0	−180	0	−125	−289
			—	—	—	—	—	5h6h	0	−280	0	−125	−289
			—	—	—	—	—	6e	−71	−351	−71	−231	−360
			6G	+250	+38	+413	+38	6g	−38	−318	−38	−198	−327
			6H	+212	0	+375	0	6h	0	−280	0	−160	−289
			—	—	—	—	—	7e6e	−71	−351	−71	−271	−360
			7G	+303	+38	+513	+38	7g6g	−38	−318	−38	−238	−327
			7H	+265	0	+475	0	7h6h	0	−280	0	−200	−289
			8G	+373	+38	+638	+38	8g	−38	−488	−38	−288	−327
			8H	+335	0	+600	0	9g8g	−38	−488	−38	−353	−327

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
11.2	22.4	2.5	—	—	—	—	—	3h4h	0	−212	0	−85	−361
			4H	+140	0	+280	0	4h	0	−212	0	−106	−361
			5G	+222	+42	+397	+42	5g6g	−42	−377	−42	−174	−403
			5H	+180	0	+355	0	5h4h	0	−212	0	−132	−361
			—	—	—	—	—	5h6h	0	−335	0	−132	−361
			—	—	—	—	—	6e	−80	−415	−80	−250	−441
			6G	+266	+42	+492	+42	6g	−42	−377	−42	−212	−403
			6H	+224	0	+450	0	6h	0	−335	0	−170	−361
			—	—	—	—	—	7e6e	−80	−415	−80	−292	−441
			7G	+322	+42	+602	+42	7g6g	−42	−377	−42	−254	−403
			7H	+280	0	+560	0	7h6h	0	−335	0	−212	−361
			8G	+397	+42	+752	+42	8g	−42	−572	−42	−307	−403
			8H	+355	0	+710	0	9g8g	−42	−572	−42	−377	403
22.4	45	1	—	—	—	—	—	3h4h	0	−112	0	−63	−144
			4H	+106	0	+150	0	4h	0	−112	0	−80	−144

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
22.4	45	1	5G	+158	+26	+216	+26	5g6g	-26	-206	-26	-126	-170
			5H	+132	0	+190	0	5h4h	0	-112	0	-100	-144
			—	—	—	—	—	5h6h	0	-180	0	-100	-144
			—	—	—	—	—	6e	-60	-240	-60	-185	-204
			6G	+196	+26	+262	+26	6g	-26	-206	-26	-151	-170
			6H	+170	0	+236	0	6h	0	-180	0	-125	-144
			—	—	—	—	—	7e6e	-60	-240	-60	-220	-204
			7G	+238	+26	+326	+26	7g6g	-26	-206	-26	-186	-170
			7H	+212	0	+300	0	7h6h	0	-180	0	-160	-144
			8G	—	—	—	—	8g	-26	-306	-26	-226	-170
			8H	—	—	—	—	9g8g	-26	-306	-26	-276	-170
		1.5	—	—	—	—	—	3h4h	0	-150	0	-75	-217
			4H	+125	0	+190	0	4h	0	-150	0	-95	-217
			5G	+192	+32	+268	+32	5g6g	-32	-268	-32	-150	-249
			5H	+160	0	+236	0	5h4h	0	-150	0	-118	-217

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major daimeter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
22.4	45	1.5	—	—	—	—	—	5h6h	0	−236	0	−118	−217
			—	—	—	—	—	6e	−67	−303	−67	−217	−284
			6G	+232	+32	+332	+32	6g	−32	−268	−32	−182	−249
			6H	+200	0	+300	0	6h	0	−236	0	−150	−217
			—	—	—	—	—	7e6e	−67	−303	−67	−257	−284
			7G	+282	+32	+407	+32	7g6g	−32	−268	−32	−222	−249
			7H	+250	0	+375	0	7h6h	0	−236	0	−190	−217
			8G	+347	+32	+507	+32	8g	−32	−407	−32	−268	−249
			8H	+315	0	+475	0	9g8g	−32	−407	−32	−332	−249
		2	—	—	—	—	—	3h4h	0	−180	0	−85	−289
			4H	+140	0	+236	0	4h	0	−180	0	−106	−289
			5G	+218	+38	+338	+38	5g6g	−38	−318	−38	−170	−327
			5H	+180	0	+300	0	5h4h	0	−180	0	−132	−289
			—	—	—	—	—	5h6h	0	−280	0	−132	−289
			—	—	—	—	—	6e	−71	−351	−71	−241	−360

(*Continued*)

ES, *es* = upper deviation
EI, *ei* = lower deviation

Basic major diamater		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
22.4	45	2	6G	+262	+38	+413	+38	6g	−38	−318	−38	−208	−327
			6H	+224	0	+375	0	6h	0	−280	0	−170	−289
			—	—	—	—	—	7e6e	−71	−351	−71	−283	−360
			7G	+318	+38	+513	+38	7g6g	−38	−318	−38	−250	−327
			7H	+280	0	+475	0	7h6h	0	−280	0	−212	−289
			8G	+393	+38	+638	+38	8g	−38	−488	−38	−303	−327
			8H	+355	0	+600	0	9g8g	−38	−488	−38	−373	−327
		3	—	—	—	—	—	3h4h	0	−236	0	−100	−433
			4H	+170	0	+315	0	4h	0	−236	0	−125	−433
			5G	+260	+48	+448	+48	5g6g	−48	−423	−48	−208	−481
			5H	+212	0	+400	0	5h4h	0	−236	0	−160	−433
			—	—	—	—	—	5h6h	0	−375	0	−160	−433
			—	—	—	—	—	6e	−85	−460	−85	−285	−518
			6G	+313	+48	+548	+48	6g	−48	−423	−48	−248	−481
			6H	265	0	+500	0	6h	0	−375	0	−200	−433

(*Continued*)

ES, *es*=upper deviation
EI, *ei* =lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
22.4	45	3	—	—	—	—	—	7e6e	−85	−460	−85	−335	−518
			7G	+383	+48	+678	+48	7g6g	−48	−423	−48	−298	−481
			7H	+335	0	+630	0	7h6h	0	−375	0	−250	−433
			8G	+473	+48	+848	+48	8g	−48	−648	−48	−363	−481
			8H	+425	0	+800	0	9g8g	−48	−648	−48	−448	−481
		3.5	—	—	—	—	—	3h4h	0	−265	0	−106	−505
			4H	+180	0	+355	0	4h	0	−265	0	−132	−505
			5G	+277	+53	+503	+53	5g6g	−53	−478	−53	−223	−558
			5H	+224	0	+450	0	5h4h	0	−265	0	−170	−505
			—	—	—	—	—	5h6h	0	−425	0	−170	−505
			—	—	—	—	—	6e	−90	−515	−90	−302	−595
			6G	+333	+53	+613	+53	6g	−53	−478	−53	−265	−558
			6H	+280	0	+560	0	6h	0	−425	0	−212	−505
			—	—	—	—	—	7e6e	−90	−515	−90	−355	−595
			7G	+408	+53	+763	+53	7g6g	−53	−478	−53	−318	−558

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
22.4	45	3.5	7H	+355	0	+710	0	7h6h	0	−425	0	−265	−505
			8G	+503	+53	+953	+53	8g	−53	−723	−53	−388	−558
			8H	+450	0	+900	0	9g8g	−53	−723	−53	−478	−558
		4	—	—	—	—	—	3h4h	0	−300	0	−112	−577
			4H	+190	0	+375	0	4h	0	−300	0	−140	−577
			5G	+296	+60	+535	+60	5g6g	−60	−535	−60	−240	−637
			5H	+236	0	+475	0	5h4h	0	−300	0	−480	−577
			—	—	—	—	—	5h6h	0	−475	0	−180	−577
			—	—	—	—	—	6e	−95	−570	−95	−319	−672
			6G	+360	60	+660	+60	6g	−60	−535	−60	−284	−637
			6H	+300	0	+600	0	6h	0	−475	0	−224	−577
			—	—	—	—	—	7e6e	−95	−570	−95	−375	−672
			7G	+435	+60	+810	+60	7g6g	−60	−535	−60	−340	−637
			7H	+375	0	+750	0	7h6h	0	−475	0	−280	−577
			8G	+535	+60	+1010	+60	8g	−60	−810	−60	−415	−637

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pith Dia		Minor Dia			Major Dia		Pitch Dia		Minor Dia
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	(for stress calculations, etc.)
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
22.4	45	4	8H	+475	0	+950	0	9g8g	−60	−810	−60	−510	−637
		4.5	—	—	—	—	—	3h4h	0	−315	0	−118	−650
			4H	+200	0	+425	0	4h	0	−315	0	−150	−650
			5G	+313	+63	+593	+63	5g6g	−63	−563	−63	−253	−713
			5H	+250	0	+530	0	5h4h	0	−315	0	−190	−650
			—	—	—	—	—	5h6h	0	−500	0	−190	−650
			—	—	—	—	—	6e	−100	−600	−100	−336	−750
			6G	+378	+63	+733	+63	6g	−63	−563	−63	−299	−713
			6H	+315	0	+670	0	6h	0	−500	0	−236	−650
			—	—	—	—	—	7e6e	−100	−600	−100	−400	−750
			7G	+463	+63	+913	+63	7g6g	−63	−563	−63	−363	−713
			7H	+400	0	+850	0	7h6h	0	−500	0	−300	−650
			8G	+563	+63	+1123	+63	8g	−63	−863	−63	−438	−713
			8H	+500	0	+1060	0	9g8g	−63	−863	−63	−538	−713
45	90	1.5	—	—	—	—	—	3h4h	0	−150	0	−80	−217

(Continued)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Major Dia		Pitch Dia		Minor Dia
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	(for stress calculations, etc.)
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
45	90	1.5	4H	+132	0	+190	0	4h	0	−150	0	−100	−217
			5G	+202	+32	+268	+32	5g6g	−32	−268	−32	−157	−249
			5H	+170	0	+236	0	5h4h	0	−150	0	−125	−217
			—	—	—	—	—	5h6h	0	−236	0	−125	−217
			—	—	—	—	—	6e	−67	−303	−67	−227	−284
			6G	+244	+32	+332	+32	6g	−32	−268	−32	−192	−249
			6H	+212	0	+300	0	6h	0	−236	0	−160	−217
			—	—	—	—	—	7e6e	−67	−303	−67	−267	−284
			7G	+297	+32	+407	+32	7g6g	−32	−268	−32	−232	−249
			7H	+265	0	+375	0	7h6h	0	−236	0	−200	−217
			8G	+367	+32	+507	+32	8g	−32	−407	−32	−282	−249
			8H	+335	0	+475	0	9g8g	−32	−407	−32	−347	−249
		2	—	—	—	—	—	3h4h	0	−180	0	−90	−289
			4H	+150	0	+236	0	4h	0	−180	0	−112	−289
			5G	+228	+38	+338	+38	5g6g	−38	−318	−38	−178	−327

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
45	90	2	5H	+190	0	+300	0	5h4h	0	−180	0	−140	−289
			—	—	—	—	—	5h6h	0	−280	0	−140	−289
			—	—	—	—	—	6e	−71	−351	−71	−251	−360
			6G	+274	+38	+413	+38	6g	−38	−318	−38	−218	−327
			6H	+236	0	+375	0	6h	0	−280	0	−180	−289
			—	—	—	—	—	7e6e	−71	−351	−71	−295	−360
			7G	+338	+38	+513	+38	7g6g	−38	−318	−38	−262	−327
			7H	+300	0	+475	0	7h6h	0	−280	0	−224	−289
			8G	+413	+38	+638	+38	8g	−38	−488	−38	−318	−327
			8H	+375	0	+600	0	9g8g	−38	−488	−38	−393	−327
		3	—	—	—	—	—	3h4h	0	−236	0	−106	−433
			4H	+180	0	+315	0	4h	0	−236	0	−132	−433
			5G	+272	+48	+448	+48	5g6g	−48	−423	−48	−218	−481
			5H	+224	0	+400	0	5h4h	0	−236	0	−170	−433
			—	—	—	—	—	5h6h	0	−375	0	−170	−433

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
45	90	3	—	—	—	—	—	6e	−85	−460	−85	−297	−518
			6G	+328	+48	+548	+48	6g	−48	−423	−48	−260	−481
			6H	+280	0	+500	0	6h	0	−375	0	−212	−433
			—	—	—	—	—	7e6e	−85	−460	−85	−350	−518
			7G	+403	+48	+678	+48	7g6g	−48	−423	−48	−313	−481
			7H	+355	0	+630	0	7h6h	0	−375	0	−265	−433
			8G	+498	+48	+848	+48	8g	−48	−648	−48	−383	−481
			8H	+450	0	+800	0	9g8g	−48	−648	−48	−473	−481
		4	—	—	—	—	—	3h4h	0	−300	0	−118	−577
			4H	+200	0	+375	0	4h	0	−300	0	−150	−577
			5G	+310	+60	+535	+60	5g6g	−60	−535	−60	−250	−637
			5H	+250	0	+475	0	5h4h	0	−300	0	−190	−577
			—	—	—	—	—	5h6h	0	−475	0	−190	−577
			—	—	—	—	—	6e	−95	−570	−95	−331	−672
			6G	+375	+60	+660	+60	6g	−60	−535	−60	−296	−637

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Major Dia		Pitch Dia		Minor Dia
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	(for stress calculations, etc.)
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
45	90	4	6H	+315	0	+600	0	6h	0	−475	0	−236	−577
			—	—	—	—	—	7e6e	−95	−570	−95	−395	−672
			7G	+460	+60	+810	+60	7g6g	−60	−535	−60	−360	−637
			7H	+400	0	+750	0	7h6h	0	−475	0	−300	−577
			8G	+560	+60	+1010	+60	8g	−60	−810	−60	−435	−637
			8H	+500	0	+950	0	9g8g	−60	−810	−60	−535	−637
		5	—	—	—	—	—	3h4h	0	−335	0	−125	−722
			4H	+212	0	+450	0	4h	0	−335	0	−160	−722
			5G	+336	+71	+631	+71	5g6g	−71	−601	−71	−271	−793
			5H	+265	0	+560	0	5h4h	0	−335	0	−200	−722
			—	—	—	—	—	5h6h	0	−530	0	−200	−722
			—	—	—	—	—	6e	−106	−636	−106	−356	−828
			6G	+406	+71	+781	+71	6g	−71	−601	−71	−321	−793
			6H	+335	0	+710	0	6h	0	−530	0	−250	−722
			—	—	—	—	—	7e6e	−106	−636	−106	−421	−828

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
45	90	5	7G	+496	+71	+971	+71	7g6g	−71	−601	−71	−386	−793
			7H	+425	0	+900	0	7h6h	0	−530	0	−315	−722
			8G	+601	+71	+1191	+71	8g	−71	−921	−71	−471	−793
			8H	+530	0	+1120	0	9g8g	−71	−921	−71	−571	−793
		5.5	—	—	—	—	—	3h4h	0	−355	0	−132	−794
			4H	+224	0	+475	0	4h	0	−355	0	−170	−794
			5G	+355	+75	+675	+75	5g6g	−75	−635	−75	−287	−869
			5H	+280	0	+600	0	5h4h	0	−355	0	−212	−794
			—	—	—	—	—	5h6h	0	−560	0	−212	−794
			—	—	—	—	—	6e	−112	−672	−112	−377	−906
			6G	+430	+75	+825	+75	6g	−75	−635	−75	−340	−869
			6H	+355	0	+750	0	6h	0	−560	0	−265	−794
			—	—	—	—	—	7e6e	−112	−672	−112	−447	−906
			7G	+525	+75	+1025	+75	7g6g	−75	−635	−75	−410	−869
			7H	+450	0	+950	0	7h6h	0	−560	0	−335	−794

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
			Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
over	up to and incl.			*ES*	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
45	90	5.5	8G	+635	+75	+1255	+75	8g	-75	-975	-75	-500	-869
			8H	+560	0	+1180	0	9g8g	-75	-975	-75	-605	-869
		6	—	—	—	—	—	3h4h	0	-375	0	-140	-866
			4H	+236	0	+500	0	4h	0	-375	0	-180	-866
			5G	+380	+80	+710	+80	5g6g	-80	-680	-80	-304	-946
			5H	+300	0	+630	0	5h4h	0	-375	0	-224	-866
			—	—	—	—	—	5h6h	0	-600	0	-224	-866
			—	—	—	—	—	6e	-118	-718	-118	-398	-984
			6G	+455	+80	+880	+80	6g	-80	-680	-80	-360	-946
			6H	+375	0	+800	0	6h	0	-600	0	-280	-866
			—	—	—	—	—	7e6e	-118	-718	-118	-473	-984
			7G	+555	+80	+1080	+80	7g6g	-80	-680	-80	-435	-946
			7H	+475	0	+1000	0	7h6h	0	-600	0	-355	-866
			8G	+680	+80	+1330	+80	8g	-80	-1030	-80	-530	-946
			8H	+600	0	+1250	9	9g8g	-80	-1030	-80	-640	-946

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
90	180	2	—	—	—	—	—	3h4h	0	-180	0	- 95	-289
			4H	+160	0	+236	0	4h	0	-180	0	-118	-289
			5G	+238	+38	+338	+38	5g6g	-38	-318	-38	-188	-327
			5H	+200	0	+300	0	5h4h	0	-180	0	-150	-289
			—	—	—	—	—	5h6h	0	-280	0	-150	-289
			—	—	—	—	—	6e	-71	-351	-71	-261	-360
			6G	+288	+38	+413	+38	6g	-38	-318	-38	-228	-327
			6H	+250	0	+375	0	6h	0	-280	0	-190	-289
			—	—	—	—	—	7e6e	-71	-351	-71	-307	-360
			7G	+353	+38	+513	+38	7g6g	-38	-318	-38	-274	-327
			7H	+315	0	+475	0	7h6h	0	-280	0	-236	-289
			8G	+438	+38	+638	+38	8g	-38	-488	-38	-338	-327
			8H	+400	0	+600	0	9g8g	-38	-488	-38	-413	-327
		3	—	—	—	—	—	3h4h	0	-236	0	-112	-433
			4H	+190	0	+315	0	4h	0	-236	0	-140	-433

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Major Dia		Pitch Dia		
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	Minor Dia (for stress calculations, etc.)
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
90	108	3	5G	+284	+48	+448	+48	5g6g	-48	-423	-48	-228	-481
			5H	+236	0	+400	0	5h4h	0	-236	0	-180	-433
			—	—	—	—	—	5h6h	0	-375	0	-180	-433
			—	—	—	—	—	6e	-85	-460	-85	-309	-518
			6G	+348	+48	+548	+48	6g	-48	-423	-48	-272	-481
			6H	+300	0	+500	0	6h	0	-375	0	-224	-433
			—	—	—	—	—	7e6e	-85	-460	-85	-365	-518
			7G	+423	+48	+678	+48	7g6g	-48	-423	-48	-328	-481
			7H	+375	0	+630	0	7h6h	0	-375	0	-280	-433
			8G	+523	+48	+848	+48	8g	-48	-648	-48	-403	-481
			8H	+475	0	+800	0	9g8g	-48	-648	-48	-498	-481
		4	—	—	—	—	—	3h4h	0	-300	0	-125	-577
			4H	+212	0	+375	0	4h	0	-300	0	-160	-577
			5G	+325	+60	+535	+60	5g6g	-60	-535	-60	-260	-637
			5H	+265	0	+475	0	5h4h	0	-300	0	-200	-577

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Minor Dia		Pitch Dia			Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	µm
90	180	4	—	—	—	—	—	5h6h	0	−475	0	−200	−577
			—	—	—	—	—	6e	−95	−570	−95	−345	−672
			6G	+395	+60	+660	+60	6g	−60	−535	−60	−310	−637
			6H	+335	0	+600	0	6h	0	−475	0	−250	−577
			—	—	—	—	—	7e6e	−95	−570	−95	−410	−672
			7G	+485	+60	+810	+60	7g6g	−60	−535	−60	−375	−637
			7H	+425	0	+750	0	7h6h	0	−475	0	−315	−577
			8G	+590	+60	+1010	+60	8g	−60	−810	−60	−460	−637
			8H	+530	0	+950	0	9g8g	−60	−810	−60	−560	−637
		6	—	—	—	—	—	3h4h	0	−375	0	−150	−866
			4H	+250	0	+500	0	4h	0	−375	0	−190	−866
			5G	+395	+80	+710	+80	5g6g	−80	−680	−80	−316	−946
			5H	+315	0	+630	0	5h4h	0	−375	0	−236	−866
			—	—	—	—	—	5h6h	0	−600	0	−236	−866
			—	—	—	—	—	6e	−118	−718	−118	−418	−984

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
over	up to and incl.		Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
				ES	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
90	180	6	6G	+480	+80	+880	+80	6g	-80	-680	-80	-380	-946
			6H	+400	0	+800	0	6h	0	-600	0	-300	-866
			—	—	—	—	—	7e6e	-118	-718	-118	-493	-984
			7G	+580	+80	+1080	+80	7g6g	-80	-680	-80	-455	-946
			7H	+500	0	+1000	0	7h6h	0	-600	0	-375	-866
			8G	+710	+80	+1330	+80	8g	-80	-1030	-80	-555	-946
			8H	+630	0	+1250	0	9g8g	-80	-1030	-80	-680	-946
180	355	3	—	—	—	—	—	3h4h	0	-236	0	-125	-433
			4H	+212	0	+315	0	4h	0	-236	0	-160	-433
			5G	+313	+48	+448	+48	5g6g	-48	-423	-48	-248	-481
			5H	+265	0	+400	0	5h4h	0	-236	0	-200	-433
			—	—	—	—	—	5h6h	0	-375	0	-200	-433
			—	—	—	—	—	6c	-85	-460	-85	-335	-518
			6G	+383	+48	+548	+48	6g	-48	-423	-48	-298	-481
			6H	+335	0	+500	0	6h	0	-375	0	-250	-433

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
				Pitch Dia		Minor Dia			Major Dia		Pitch Dia		
over	up to and incl.		Tolerance class	*ES*	*EI*	*ES*	*EI*	Tolerance class	*es*	*ei*	*es*	*ei*	Minor Dia (for stress calculations, etc.)
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
180	355	3	—	—	—	—	—	7e6e	−85	−460	−85	−400	−518
			7G	+473	+48	+678	+48	7g6g	−48	−423	−48	−363	−481
			7H	+425	0	+630	0	7h6h	0	−375	0	−315	−433
			8G	+578	+48	+848	+48	8g	−48	−648	−48	−448	−481
			8H	+530	0	+800	0	9g8g	−48	−648	−48	−548	−481
		4	—	—	—	—	—	3h4h	0	−300	0	−140	−577
			4H	+236	0	+375	0	4h	0	−300	0	−180	−577
			5G	+360	+60	+535	+60	5g6g	−60	−535	−60	−284	−637
			5H	+300	0	+475	0	5h4h	0	−300	0	−224	−577
			—	—	—	—	—	5h6h	0	−475	0	−224	−577
			—	—	—	—	—	6e	−95	−570	−95	−375	−672
			6G	+435	+60	+660	+60	6g	−60	−535	−60	−340	−637
			6H	+375	0	+600	0	6h	0	−475	0	−280	−577
			—	—	—	—	—	7e6e	−95	−570	−95	−450	−672
			7G	+535	+60	+810	—	7g6g	−60	−535	−60	−415	−637

(*Continued*)

ES, *es*=upper deviation
EI, *ei*=lower deviation

Basic major diameter		Pitch	Nut thread					Bolt thread					
			Tolerance class	Pitch Dia		Minor Dia		Tolerance class	Major Dia		Pitch Dia		Minor Dia (for stress calculations, etc.)
over	up to and incl.			*ES*	*EI*	*ES*	*EI*		*es*	*ei*	*es*	*ei*	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	μm
180	355	4	7H	+475	0	+750	0	7h6h	0	−475	0	−355	−577
			8G	+660	+60	+1010	+60	8g	−60	−810	−60	−510	−637
			8H	+600	0	+950	0	9g8g	−60	−810	−60	−620	−637
		6	—	—	—	—	—	3h4h	0	−375	0	−160	−866
			4H	+265	0	+500	0	4h	0	−375	0	−200	−866
			5G	+415	+80	+710	+80	5g6g	−80	−680	−80	−330	−946
			5H	+335	0	+630	0	5h4h	0	−375	0	−250	−866
			—	—	—	—	—	5h6h	0	−600	0	−250	−866
			—	—	—	—	—	6e	−118	−718	−118	−433	−984
			6G	+505	+80	+880	+80	6g	−80	−680	−80	−395	−946
			6H	+425	0	+800	0	6h	0	−600	0	−315	−866
			—	—	—	—	—	7e6e	−118	−718	−118	−518	−984
			7G	+610	+80	+1080	+80	7g6g	−80	−680	−80	−480	−946
			7H	+530	0	+1000	0	7h6h	0	−600	0	−400	−866
			8G	+750	+80	+1330	+80	8g	−80	−1030	−80	−580	−946
			8H	670	0	+1250	0	9g8g	−80	−1030	−80	−710	−946

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