# SQUARE AND RECTANGU

AMERICAN NATIONAL ANSTANDARD





AN AMERICAN NATIONAL STANDARD

# SQUARE AND RECTANGULAR KEYS AND KEYWAYS: WIDTH TOLERANCES AND DEVIATIONS GREATER THAN BASIC SIZE

ASME B18.25.3M-1998

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STD.ASME Bla.25.3M-ENGL 1998 🕶 0759670 0608341 T64 🖿

### **FOREWORD**

(This Foreword is not part of ASME B18.25.3M-1998)

The ASME Subcommittee B18.25 was created in 1994. This subcommittee then assumed the responsibilities of ANSI Standards Committee B17.

The first endeavor of this subcommittee was to create U.S. standards for metric square and rectangular and Woodruff keys and keyways. ASME B18.25.1M covers square and rectangular keys and keyways based on the ISO standard with modifications to reflect U.S. manufacturing and user needs. ASME B18.25.2M covers Woodruff keys and keyways based on the ISO standard with modifications to reflect U.S. manufacturing and user needs. This Standard covers what would be referred to as a "commercial" grade of square and rectangular keys and keyways. There is no ISO standard for the keys and keyways covered by this Standard. The following document was balloted on March 6, 1998.

Following approval by ASME, the document was submitted to the American National Standards Institute. This Standard was approved by ANSI on June 17, 1998.

# ASME STANDARDS COMMITTEE B18 Standardization of Bolts, Nuts, Rivets, Screws, Washers, and Similar Fasteners

(The following is the roster of the Committee at the time of approval of this Standard.)

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General. ASME Standards are developed and maintained with the intent to represent the consensus of concerned interests. As such, users of this Standard may interact with the Committee by requesting interpretations, proposing revisions, and attending Committee meetings. Correspondence should be addressed to:

Secretary, B18 Main Committee The American Society of Mechanical Engineers Three Park Avenue New York, NY 10016-5990

*Proposing Revisions.* Revisions are made periodically to the Standard to incorporate changes that appear necessary or desirable, as demonstrated by the experience gained from the application of the Standard. Approved revisions will be published periodically.

The Committee welcomes proposals for revisions to this Standard. Such proposals should be as specific as possible, citing the paragraph number(s), the proposed wording, and a detailed description of the reasons for the proposal, including any pertinent documentation.

Interpretations. Upon request, the B18 Committee will render an interpretation of any requirement of the Standard. Interpretations can only be rendered in response to a written request sent to the Secretary of the B18 Main Committee.

The request for interpretation should be clear and unambiguous. It is further recommended that the inquirer submit his/her request in the following format:

Subject: Edition:

Cite the applicable paragraph number(s) and the topic of the inquiry. Cite the applicable edition of the Standard for which the interpretation

is being requested.

Ouestion:

Phrase the question as a request for an interpretation of a specific requirement suitable for general understanding and use, not as a request for an approval of a proprietary design or situation. The inquirer may also include any plans or drawings, which are necessary to explain the question; however, they should not contain proprietary names or information.

Requests that are not in this format may be rewritten in the appropriate format by the Committee prior to being answered, which may inadvertently change the intent of the original request.

ASME procedures provide for reconsideration of any interpretation when or if additional information that might affect an interpretation is available. Further, persons aggrieved by an interpretation may appeal to the cognizant ASME Committee or Subcommittee. ASME does not "approve," "certify," "rate," or "endorse" any item, construction, proprietary device, or activity.

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■ TDJ 27E6040 0759670 ■ 6PPL 1909-ME.25.6LB 3M2A.QTZ

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# SQUARE AND RECTANGULAR KEYS AND KEYWAYS: WIDTH TOLERANCES AND DEVIATIONS GREATER THAN BASIC SIZE

### INTRODUCTORY NOTES

### 1.1 Scope

- **1.1.1** This Standard covers requirements for square and rectangular parallel keys and keyways intended for both alignment of shafts and hubs, and transmitting torque between shafts and hubs.
- **1.1.2** Keys covered by this Standard have a relatively loose width tolerance. All width tolerances are positive. Keys with minus width tolerances and a smaller tolerance range are covered by ASME B18.25.1M.
- **1.1.3** The inclusion of dimensional data in this Standard is not intended to imply that all sizes described are production stock items. Consumers should consult with suppliers concerning lists of stock items.

## 1.2 Comparison With ISO R773-1969 and 2491-1974

This Standard has greater tolerances than ISO Standards R773-1969 and 2491-1974. Product manufactured to this Standard is not interchangeable dimensionally with product manufactured to the ISO standards nor is product manufactured to the ISO standards dimensionally interchangeable with product manufactured to this Standard. ISO standards do not include hardened keys.

### 1.3 Dimensions

Unless otherwise specified, all dimensions in this Standard are in millimeters.

### 1.4 Tolerances

Many of the tolerances shown in Tables 1 and 2 are from ANSI B4.2 (ISO 286-1 and ISO 286-2). As a result, in addition to plus-minus tolerances which are common in the U.S., some are expressed as plus-plus deviations from the basic size. For further interpretation of these tolerances, refer to ANSI B4.2 or ISO 286.

### 1.5 Terminology

For definitions of terms related to fasteners or component fasteners used in this Standard, refer to ANSI B18.12.

### 1.6 Referenced Standards

- ANSI B18.12, Glossary of Terms for Mechanical Fasteners
- ASME B18.25.1M, Square and Rectangular Keys and Keyways
- ISO Standard R773-69, Rectangular or Square Parallel Keys and Their Corresponding Keyways
- ISO Standard 2491-1974, Thin Parallel Keys and Their Corresponding Keyways (Dimensions in millimeters)
- ISO Standard 286-1-1988, ISO System of Limits and Fits Bases of Tolerances, Deviations and Fits
- ISO Standard 286-2-1988, ISO System of Limits and
   Fits Tables of Standard Tolerance Grades and
   Limit Deviations for Holes and Shafts
- Referenced ASME standards may be obtained from the American Society of Mechanical Engineers, 22 Law Drive, Box 2300, Fairfield, New Jersey 07007-2300
- Referenced ANSI and ISO standards may be obtained from the American National Standards Institute, 11 West 42nd Street, New York, NY

### 1.7 Designation

Keys conforming to this Standard shall be designed by the following data, preferably in the sequence shown:

- (a) ASME document number,
- (b) product name,
- (c) nominal size (width (b) x height (h) x length),
- (d) style,
- (e) hardness (if other than non-hardened) or optionally by ASME B18.24.1, Part Identification Number (PIN) Code System Standard for B18 Externally Threaded Products.

### **EXAMPLES:**

- (1) K253NAB003020302NNAA1
- (2) K253NBF010040302NNAA1

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SQUARE AND RECTANGULAR KEYS AND KEYWAYS

### 1.8 Preferred Lengths and Tolerances

Preferred lengths and tolerances of square and rectangular keys are shown below. Tolerances are JS16 from ANSI B4.2. To minimize problems due to lack of straightness, key length should be less than 10 times the key width.

Length	±Tolerances
6	0.375
8, 10	0.45
12, 14, 16, 18	0.55
20, 22, 25, 28	0.65
32, 36, 45, 50	0.80
56, 63, 70, 80	0.95
90, 100, 110	1.1
125, 140, 160, 180	1.25
200, 220, 250	1.45
280	1.6
320, 360, 400	1.8

### **2 REQUIREMENTS**

### 2.1 Material

Standard steel keys shall have a hardness of 183 HV minimum. Hardened keys shall be alloy steel through hardened to a Vickers hardness of 390 to 510 HV. When other materials and properties are required, these shall be as agreed upon by the supplier and customer.

### 2.2 Dimensions and Tolerances

Dimensions and tolerances for square and rectangular keys are shown in Table 1. Recommended dimensions and tolerances for keyways are shown in Table 2.

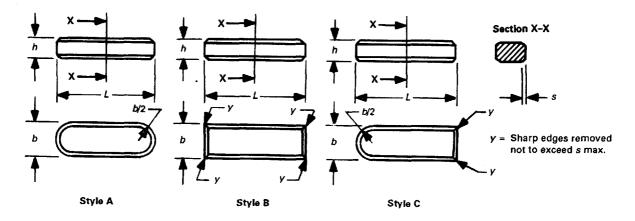


TABLE 1 DIMENSIONS FOR SQUARE AND RECTANGULAR PARALLEL KEYS

Wic	ith,	l .	ness, h	Rad	nfer or dius,	Range of Lengths			
Basic Size	Tolerance	Basic Size	Tolerance	Min.	Max.	From	То		
			Square Keys				•		
2	+0.040	2	+0.040			6	20		
3	-0.000	3	-0.000	0.16	0.25	6	36 [Note (1)]		
4		4				8	45 [Note (1)]		
5	+0.045	5	+0.045			10	56 [Note (1)]		
6	-0.000	6	-0.000	0.25	0.40	14	70 [Note (1)]		
		Re	ctangular Ke	ys			_		
5	+0.045	3	+0.160				56 [Note (1)]		
	-0.000		-0.000						
6		4	+0.175	0.25	0.40	14	70 [Note (1)]		
8		5	-0.000						
8	+0.050	7	+0.190			18	90 [Note (1)]		
	-0.000		-0.000						
10		6	+0.175						
			-0.000	0.40	0.60	22	2 110 [Note (1)]		
10		8	+0.190						
			-0.000						

(Table 1 continues on next page)

SQUARE AND RECTANGULAR KEYS AND KEYWAYS

TABLE 1 DIMENSIONS FOR SQUARE AND RECTANGULAR PARALLEL KEYS (CONT'D)

Wic	ith,	Thick	ness,	Cham Rac	nfer or lius, s	Range of Lengths From To				
Basic Size	Tolerance	Basic Size	Tolerance	Min.	Max.					
		Re	ctangular Ke	ys	L		1			
12		6	+0.175							
			-0.000			28	140 [Note (1)]			
12		8	+0.190							
			-0.000							
14		6	+0.175							
			-0.000	0.40	0.60	36	160 [Note (1)]			
14	+0.075	9								
16	-0.000	7	+0.190			45	180 [Note (1)]			
16		10	-0.000							
18		7		1						
18		11	+0.210			50	200 [Note (1)]			
			-0.000	ļ						
20		8	+0.190			56	220 [Note (1)]			
			-0.000							
20		12	+0.210			63	260 [Note (1)]			
			-0.000							
22		6	+0.175			70	280 [Note (1)]			
			-0.000	-			200 (8) 4 (4)3			
22	+0.050	14	+0.210			80	320 [Note (1)]			
	-0.033		-0.000	0.60	0.00	90	360 [Note (1)]			
25		9	+0.210	0.60	0.80	90	360 [Note (1)]			
25		14	-0.000 +0.190	-		100	400 [Note (1)]			
23		14	-0.000			100	400 [(1016 (1))			
28		10	+0.210	1						
20			-0.000							
28		16	0.000	1						
32		11	+0.280							
32		18	-0.000							
36	+0.090	12	1			1				
36	-0.000	20		1						
40	]	22	+0.280	1.00	1.20					
45		25	-0.000							
50		28								
56		32								
63	+0.125	32		1.60	2.00					
70	-0.000	36	+0.310							
80		40	-0.000			1				
90	+0.135	45		2.50	3.00					
100	-0.000	50								

NOTE:

(1) See 1.8 for preferred maximum length of key.

### SQUARE AND RECTANGULAR KEYS AND KEYWAYS

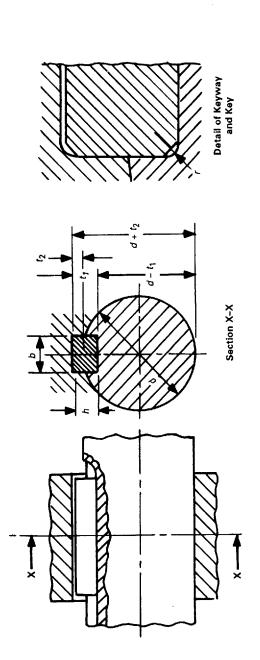


TABLE 2 DIMENSIONS AND TOLERANCES FOR KEYWAYS

		Radius,			Мах.		0.16					0.25					9.0		
-		Hub,	ţ,		Tolerance			L	-0.1	0				+0.2	0	+0.1	0	+0.2	0
	ıţ	_		Nom	inal	١	1.4	1.8	1.4	2.8	1.8	2.8	2.8	3.3		2.8		3.3	
	Depth	Shaft,	t,		Tolerance				+0.1	0				+0.2	0	+0.1	0	+0.2	0
		S		Nom-	inal	1.2	1.8	2.5	1.8	3	2.5	3.5	က	4		3.5		5	
					ŧ	0.086L	0.020L		•	0.105L	0.030L				0.130L	0.040L			
			Fit	Hub	Tolerance	+0.086	+0.060			+0.105	+0.075				+0.130	+0.090			
Α			Free Fit		Ĕ	1990.0	Т0			0.075L	T0				0.090L	Т0			
Keyway		ote (1)]		Shaft	Tolerance	+0.066	+0.040			+0.075	+0.045				+0.090	+0.050			
		ing Fit [N	. <del>:</del>	Hub	Ħ	0.034L	0.032T			0.035L	0.040T				0.040L	0.050T		-	
	Width	erance and Resulting Fit [Note (1)]	Close Fit	Shaft and Hub	Tolerance	+0.034	-0.008			+0.035	-0.005				+0.040	-0.000			
		Tolerance			Fit	0.050L	0.015T			0.060L	0.015T				0.075L	0.015T			
		-	al Fit	Hub	Tolerance	+0.050	+0.025			+0.060	+0.015				+0.075	+0.035			
			Normal Fit		Œ	0.040L	0.030T			0.045L	0.030T				0.055L	0.035T			
				Shaft	Tolerance	+0.040	+0.010			+0.045	+0.015				+0.055	+0.015			
			N C	i le ci		2	ო	4	2	5	9	9	80	80		10		10	
		Y V			<u>.</u>	2×2	3×3	4×4	5×3	5×5	6×4	9×9	8×5	8×7		10×6		10×8	

(Table 2 continues on next page)

TABLE 2 DIMENSIONS AND TOLERANCES FOR KEYWAYS (CONT'D)

								Комиче	7.6							
						Width		ta Cou	Á				Depth	ŧ		
Kev					Tolerance	olerance and Resulting Fit [Note (1)]	ing Fit (I	Note (1)]				S	Shaft,		Hub,	Radius,
Size	Nom-		Norm	Normal Fit		Close Fit	Fit		Free Fit	Fit		<b></b>	t,		ts	,
þxq	leui	Shaft	H.	Hub		Shaft and Hub	I Hub	Shaft	ff	Hub		Nom-		Nom-		
		Tolerance	Ŧ	Tolerance	Fit	Tolerance	Œ	Tolerance	Fit	Tolerance	Ħ	inal	Tolerance	inal	Tolerance	Мах.
12×6	12											3.5	+0.1 0	2.8	+0.1	
12×8	12											2	+0.2	3.3	+0.2	
14×6	14	+0.080	0.080L	+0.095	0.095L	+0.055	0.055L	+0.135	0.135L	+0.185	0.185L	3.5	+0.1	2.8	+0.1	
14×9	14	-0.030	0.045T	+0.055	0.020T	-0.015	0.060T	+0.075	T0	+0.125	0.050L	5.5		3.8		
16×7	16											4		3.3		v
16×10	16											9		4.3		9.0
18×7	18								•			4		3.3		
18×11	18											7		4.4		
20×8	20											2		3.3	-	
20×12	10						.,					7.5		4.9		
22×9	10											5.5	+0.2	3.8	+0.2	
22×14	22	+0.085	0.085L	+0.110	0.110L	+0.050	0.050L	+0.135	0.150L	+0.200	0.200L	6	0	5.4	0	
25×9	25	-0.035	0.050T	+0.060	0.025T	-0.010	0.075T	+0.085	TO	+0.110	0.065L	5.5		3.8		
25×14	25											6		5.4		
28×10	28						-					9		4.3		
28×16	28											10		6.4		
32×11	32											11		4.4		
32×18	32											18		7.4		
36×12	36	0	11.4	0												
56×32	26											20		12.4		
63×32	63	+0.110	0.110L	+0.170	0.170L	+0.090	0.090L	+0.200	0.225L	+0.300	0.300L	20		12.4		1.6
70×36	70	-0.050	0.075T	+0.090	0.035T	-0.020	0.105T	+0.125	Т0	+0.225	0.100L	22		14.4		
80×40	80											25		15.4		
90×45	90	+0.130	0.130L	+0.180	0.180L	+0.095	0.095L	+0.225	0.225L	+0.340	0.340L	28		17.4		2.5
100×50	100	-0.050	0.085T	+0.090	0.045T	-0.015	0.120T	+0.135	ОТ	+0.255	0.120L	31		19.5		

NOTE: (1) In columns labeled "Fit," an "L" indicates the maximum clearance between the key and the keyway; the "T" indicates the maximum interference between the key and the keyway.

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# AMERICAN NATIONAL STANDARDS FOR BOLTS, NUTS, RIVETS, SCREWS WASHERS, AND SIMILAR FASTENERS

Small Solid Rivets	
Large Rivets	
Metric Small Solid Rivets	B18.1.3M-1983(R1995)
Square and Hex Bolts and Screws (Inch Series)	
Square and Hex Nuts (Inch Series)	
Metric Hex Cap Screws	
Metric Formed Hex Screws	
Metric Heavy Hex Screws	
Metric Hex Flange Screws	
Metric Hex Bolts	
Metric Heavy Hex Bolts	
Metric Heavy Hex Structural Bolts	
Metric Hex Lag Screws	
Metric Heavy Hex Flange Screws	
Square Head Bolts (Metric Series)	B18.2.3.10M-1996
Metric Hex Nuts, Style 1	
Metric Hex Nuts, Style 2	
Metric Slotted Hex Nuts	
Metric Hex Flange Nuts	
Metric Hex Jam Nuts	
Metric Heavy Hex Nuts	
Fasteners for Use in Structural Applications	
Socket Cap, Shoulder, and Set Screws, Hex and Spline Keys (Inch Series)	
Socket Head Cap Screws (Metric Series)	
Metric Series Hexagon Keys and Bits	
Hexagon Socket Head Shoulder Screws (Metric Series)	
Hexagon Socket Button Head Cap Screws (Metric Series)	
Hexagon Socket Flat Countersunk Head Cap Screws (Metric Series)	
Metric Series Socket Set Screws	
Round Head Bolts (Inch Series)	
Metric Round Head Short Square Neck Bolts	
Metric Round Head Square Neck Bolts	
Round Head Square Neck Bolts With Large Head (Metric Series)	D10 E 2 2K/ 100/
Wood Screws (Inch Series)	B18.6.1-1981(R1991)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws	B18.6.1-1981(R1991) B18.6.2-1972(R1993)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws  Machine Screws and Machine Screw Nuts	B18.6.1-1981(R1991) B18.6.2-1972(R1993)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws  Machine Screws and Machine Screw Nuts	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws  Machine Screws and Machine Screw Nuts	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.4-1981(R1991)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws  Machine Screws and Machine Screw Nuts	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.4-1981(R1991) B18.6.5M-1986(R1993)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws  Machine Screws and Machine Screw Nuts  Thread Forming and Thread Cutting Tapping Screws and  Metallic Drive Screws (Inch Series)  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.4-1981(R1991) B18.6.5M-1986(R1993)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws  Machine Screws and Machine Screw Nuts  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series)  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.4-1981(R1991) B18.6.5M-1986(R1993) B18.6.7M-1985(R1993)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.4-1981(R1991) B18.6.5M-1986(R1993) B18.6.7M-1985(R1993)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets.	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.4-1981(R1991) B18.6.5M-1986(R1993) B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7.1M-1984(R1992)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.4-1981(R1991) B18.6.5M-1986(R1993) B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7.1M-1984(R1992) B18.8.1-1994
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series).  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991)B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7-1984(R1992) B18.8.1-1994 B18.8.2-1995
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series).  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.8.1-1994 B18.8.1-1995 B18.8.3M-1995
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series)  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.8.1-1994 B18.8.1-1994 B18.8.2-1995 B18.8.3M-1995 B18.8.4M-1994
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series)  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.8.1-1994 B18.8.2-1995 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series).  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series).  Spring Pins — Slotted (Metric Series).  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headless Clevis Pins (Metric Series).	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.6M-1995 B18.8.7M-1994
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headless Clevis Pins (Metric Series)  Headed Clevis Pins (Metric Series)	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.6M-1995 B18.8.7M-1994 B18.8.7M-1994
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headless Clevis Pins (Metric Series)  Grooved Pins (Metric Series)	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994(R1992) B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.6M-1995 B18.8.7M-1994 B18.8.8M-1994 B18.8.8M-1994
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headed Clevis Pins (Metric Series)  Grooved Pins (Metric Series)  Plow Bolts (Inch Series).	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.8.1-1994 B18.8.2-1995 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.7M-1994 B18.8.8M-1994 B18.8.9M-1998 B18.9-1996
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headeless Clevis Pins (Metric Series)  Headed Clevis Pins (Metric Series)  Plow Bolts (Inch Series).  Track Bolts and Nuts	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994(R1992) B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.6M-1995 B18.8.7M-1994 B18.8.9M-1998 B18.9-1996 B18.9-1996
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headeless Clevis Pins (Metric Series)  Headed Clevis Pins (Metric Series)  Plow Bolts (Inch Series)  Track Bolts and Nuts  Miniature Screws	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.6M-1995 B18.8.7M-1994 B18.8.9M-1998 B18.9-1996 B18.10-1982(R1992) B18.11-1961(R1992)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets Clevis Pins and Cotter Pins (Inch Series) Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series) Spring Pins — Coiled Type (Metric Series) Spring Pins — Slotted (Metric Series) Machine Dowel Pins — Hardened Ground (Metric Series) Cotter Pins (Metric Series). Headless Clevis Pins (Metric Series) Headed Clevis Pins (Metric Series) Grooved Pins (Metric Series) Plow Bolts (Inch Series) Track Bolts and Nuts Miniature Screws Glossary of Terms for Mechanical Fasteners	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.6M-1995 B18.8.9M-1994 B18.8.9M-1994 B18.9-1996 B18.10-1982(R1992) B18.11-1961(R1992) B18.12-1962(R1991)
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws.  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headless Clevis Pins (Metric Series)  Headed Clevis Pins (Metric Series)  Plow Bolts (Inch Series).  Track Bolts and Nuts  Miniature Screws  Glossary of Terms for Mechanical Fasteners  Screw and Washer Assemblies — Sems (Inch Series)	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.6M-1995 B18.8.6M-1995 B18.8.7M-1994 B18.8.9M-1998 B18.9-1996 B18.10-1982(R1992) B18.11-1961(R1992) B18.13-1996
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headless Clevis Pins (Metric Series)  Headed Clevis Pins (Metric Series)  Grooved Pins (Metric Series)  Plow Bolts (Inch Series).  Track Bolts and Nuts  Miniature Screws  Glossary of Terms for Mechanical Fasteners  Screw and Washer Assemblies — Sems (Inch Series)  Screw and Washer Assemblies — Sems (Metric Series)	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.7M-1994 B18.8.9M-1998 B18.9-1996 B18.10-1982(R1992) B18.11-1961(R1992) B18.13-1996 B18.13-1996
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws.  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets.  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headless Clevis Pins (Metric Series)  Headed Clevis Pins (Metric Series)  Plow Bolts (Inch Series).  Track Bolts and Nuts  Miniature Screws  Glossary of Terms for Mechanical Fasteners  Screw and Washer Assemblies — Sems (Metric Series)  Screw and Washer Assemblies — Sems (Metric Series)  Forged Eyebolts.	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1991) B18.6.5M-1986(R1993) B18.6.7M-1985(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.7M-1994 B18.8.9M-1998 B18.9-1996 B18.10-1982(R1992) B18.11-1961(R1992) B18.13-1996 B18.13-1996
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series)  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series)  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series)  Cotter Pins (Metric Series).  Headless Clevis Pins (Metric Series)  Headed Clevis Pins (Metric Series)  Plow Bolts (Inch Series)  Track Bolts and Nuts  Miniature Screws  Glossary of Terms for Mechanical Fasteners  Screw and Washer Assemblies — Sems (Inch Series)  Forged Eyebolts  Mechanical and Performance Requirements for Prevailing-Torque Type	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1993) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.7M-1994 B18.8.9M-1994 B18.8.9M-1994 B18.9-1996 B18.10-1982(R1992) B18.11-1961(R1992) B18.13-1996 B18.13-1996 B18.13-1996 B18.13-1996
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series).  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws.  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series).  Spring Pins — Coiled Type (Metric Series).  Spring Pins — Slotted (Metric Series).  Machine Dowel Pins — Hardened Ground (Metric Series).  Cotter Pins (Metric Series).  Headless Clevis Pins (Metric Series).  Headed Clevis Pins (Metric Series).  Flow Bolts (Inch Series).  Track Bolts and Nuts  Miniature Screws  Glossary of Terms for Mechanical Fasteners  Screw and Washer Assemblies — Sems (Inch Series)  Screw and Washer Assemblies — Sems (Metric Series)  Forged Eyebolts.  Mechanical and Performance Requirements for Prevailing-Torque Type  Steel Metric Hex Nuts and Hex Flange Nuts	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1993) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.7M-1994 B18.8.9M-1994 B18.8.9M-1994 B18.9-1996 B18.10-1982(R1992) B18.11-1961(R1992) B18.13-1996 B18.13-1996 B18.13-1996 B18.13-1996
Slotted Head Cap Screws, Square Head Set Screws, and Slotted Headless Set Screws.  Machine Screws and Machine Screw Nuts.  Thread Forming and Thread Cutting Tapping Screws and Metallic Drive Screws (Inch Series)  Metric Thread Forming and Thread Cutting Tapping Screws  Metric Machine Screws  General Purpose Semi-Tubular Rivets, Full Tubular Rivets, Split Rivets and Rivet Caps.  Metric General Purpose Semi-Tubular Rivets  Clevis Pins and Cotter Pins (Inch Series)  Taper Pins, Dowel Pins, Straight Pins, Grooved Pins, and Spring Pins (Inch Series)  Spring Pins — Coiled Type (Metric Series)  Spring Pins — Slotted (Metric Series)  Machine Dowel Pins — Hardened Ground (Metric Series)  Cotter Pins (Metric Series).  Headless Clevis Pins (Metric Series)  Headed Clevis Pins (Metric Series)  Plow Bolts (Inch Series)  Track Bolts and Nuts  Miniature Screws  Glossary of Terms for Mechanical Fasteners  Screw and Washer Assemblies — Sems (Inch Series)  Forged Eyebolts  Mechanical and Performance Requirements for Prevailing-Torque Type	B18.6.1-1981(R1991) B18.6.2-1972(R1993) B18.6.3-1972(R1983) B18.6.3-1972(R1983) B18.6.5M-1986(R1993) B18.6.5M-1986(R1993) B18.7-1972(R1992) B18.7-1972(R1992) B18.7-1972(R1992) B18.8.1-1994 B18.8.1-1994 B18.8.3M-1995 B18.8.4M-1994 B18.8.5M-1994 B18.8.6M-1995 B18.8.7M-1994 B18.8.9M-1998 B18.9-1996 B18.10-1982(R1992) B18.11-1961(R1992) B18.11-1962(R1991) B18.13-1996 B18.13-1996 B18.13-1996 B18.13-1995) B18.15-1985(R1995)

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