AN AMERICAN NATIONAL STANDARD

Gages and Gaging for Unified Inch Screw Threads

ANSI/ASME B1.2-1983

(REVISION OF ANSI B1.2-1974)

REAFFIRMED 1991

FOR CURRENT COMMITTEE PERSONNEL
PLEASE SEE ASME MANUAL AS-11

SPONSORED AND PUBLISHED BY

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

United Engineering Center 345 East 47th Street New York, N. Y. 10017

Errata
to
ANSI/ASME B1.2-1983

The Errata correction listed below applies to ANSI/ASME B1.2-1983, Gages and Gaging for Unified Inch Screw Threads.

Page	Location	Change
87	Table 11	Under column 8, change third entry from .3744 to .3739

MAY 1992

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
345 East 47th Street, New York, N.Y. 10017

N0058E

ACCEPTANCE NOTICE

The above non-Government document was adopted on 5 March 1985 and is approved for use by the Federal agencies. The indicated industry group has furnished the clearance required by existing regulations. Copies of the document are stocked by the DoD Single Stock Point, Naval Publications and Forms Center, Philadelphia, PA 19120, for issue to DoD activities only. Contractors and industry groups must obtain copies directly from:

The American Society of Mechanical Engineers
United Engineering Center, 345 E. 47th Street
New York, NY 10017

or

The American National Standards Institute,
1430 Broadway, New York, NY 10018

Title of Document: Gages and Gaging for Unified Inch Screw Threads
Date of Specific Issue Adopted: 16 May 1983
Releasing Industry Group: The American Society of Mechanical Engineers

---

NOTE: See FED-STD-H28/6: Screw-Thread Standards for Federal Services, Section 6, Gages and Gaging for Unified Screw Threads – UN and UNR Thread Forms

NOTICE: When reaffirmation, amendment revision, or cancellation of this standard is initially proposed, the industry group responsible for this Standard shall inform the military coordinating activity of the proposed change and request their participation.

Custodians: Army – AR; Navy – AS; Air Force – 11

Review Activities: Army – AT, AV, GL, ME

User Activities: Navy – EC

Civil Agency Coordinating Activities: Commerce – NBS
DOT – ACO, APM, FAA, FRA, NHT
GSA – FSS, PCD; HUD – HCC; Justice – FPI
NASA – JFK, LRC, MSF; USDA – AFS

Military Coordinating Activity: DLA – IS

(Project THDS-0045)

AREA-THDS

AN AMERICAN NATIONAL STANDARD

Gages and Gaging for Unified Inch Screw Threads

ANSI/ASME B1.2-1983

(REVISION OF ANSI B1.2-1974)

SPONSORED AND PUBLISHED BY

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

United Engineering Center 345 East 47th Street New York, N. Y. 10017

This Standard will be revised when the Society approves the issuance of a new edition. There will be no addenda or written interpretations of the requirements of this Standard issued to this Edition.

Date of Issuance: June 15, 1984

This code or standard was developed under procedures accredited as meeting the criteria for American National Standards. The Consensus Committee that approved the code or standard was balanced to assure that individuals from competent and concerned interests have had an opportunity to participate. The proposed code or standard was made available for public review and comment which provides an opportunity for additional public input from industry, academia, regulatory agencies, and in the public at large.

ASME does not "approve," "rate," or "endorse" any item, construction, proprietary device, or activity.

ASME does not take any position with respect to the validity of any patent rights asserted in connection with any items mentioned in this document, and does not undertake to insure anyone utilizing a standard against liability for infringement of any applicable Letters Patent, nor assume any such liability. Users of a code or standard are expressly advised that determination of the validity of any such patent rights, and the risk of infringement of such rights, is entirely their own responsibility.

Participation by federal agency representative(s) or person(s) affiliated with industry is not to be interpreted as government or industry endorsement of this code or standard.

ASME does not accept any responsibility for interpretations of this document made by individual volunteers.

FOREWORD

(This Foreword is not part of American National Standard ANSI/ASME B1.2-1983, Gages and Gaging for Unified Inch Screw Threads.)

American National Standards Committee B1 for the Standardization of screw threads was organized in 1920 as Sectional Committee B1 under the aegis of the American Engineering Standards Committee (later the American National Standards Association, then the United States of America Standards Institute and, as of October 6, 1969, the American National Standards Institute, Inc.), with the Society of Automotive Engineers and the American Society of Mechanical Engineers as joint sponsors.

In 1982, American National Standards Committee B1 was reorganized as the ASME Standards Committee B1, and since then it has operated under the American Society of Mechanical Engineers Procedures to produce and update standards which may become ANSI Standards after final approval by the American National Standards Institute.

A declaration of accord with respect to the unification of screw threads was signed on November 18, 1948, by representatives of the services and industry of the United States, the United Kingdom, and Canada. The ANSI Unified Screw Thread Standard B1.1, through the quadripartite standardization agreement (QST AG) 247, Unified Threads, is subject to an international standardization agreement through the instrumentality of the American-British-Canadian-Australian Army Standardization Program, which recognizes B1.1 as a standard for Unified Threads when it is required to effect the interchangeability of parts and equipment between the armies of the participating nations.

The first American National Standard for Screw Thread Gages and Gaging was published as ASA B1.2-1941 to supplement the parent Standard ASA B1.1-1935, Screw Threads for Bolts, Nuts, Machine Screws and Threaded Parts. That Standard was revised and republished as a Unified Standard ASA B1.1-1949 and again as ASA B1.1-1960. The Unified Gage Standard was republished as ASA B1.2-1951 and USA B1.2-1966.

On February 9, 1973, a meeting was held by the Department of Commerce at the National Bureau of Standards, Washington, D.C., attended by representatives of government and industry screw thread interests. With the goal of eliminating parallel standards, those at the meeting recommended that the NBS Handbook H-28 be converted into a coordinating document for government screw thread standards wherein sections of H-28 would be replaced by single page references to existing industry standards. It was further recommended that the chairman of American National Standards Committee B1 set up a group to clearly define and establish identified levels of acceptability for screw threads.

At an American National Standards Committee B1 meeting held on May 3, 1973, unanimous approval was given to the following motion: "The B1 Committee recognizing the needs of industry for different levels of acceptability for screw threads, establishes new scopes for Standards B1.1 and B1.2 and sets up a new standard, B1.3." References to conformance criteria were removed from ANSI B1.2-1974 and additional gages and gaging data were added to suit additional conformance requirements specified in ANSI B1.3 or other B1 thread documents.

This new publication, designated ANSI/ASME B1.2-1983, has had considerable new material added to cover the many options of gages and measuring equipment shown in ANSI B1.3, Screw Thread Gaging Systems for Dimensional Acceptability. It has also re-

applied HI and LO to function as NOT GO gages and has eliminated gages with pitch diameter outside product thread limits. ANSI B1.2 was approved by the ASME Standards Committee B1 on March 18, 1983.

The proposed standard was submitted by the ASME Board of Standardization to the American National Standards Institute. It was approved and formally designated an American National Standard on May 16, 1983.

ASME STANDARDS COMMITTEE B1
Standardization and Unification of Screw Threads

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

OFFICERS

D. J. Emanuelli, *Chairman* **H. W. Ellison,** *Vice Chairman*
C. E. Lynch, *Secretary*

COMMITTEE PERSONNEL

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
G. G. Gerber, McDonnell Douglas, St. Louis, Missouri
H. Borrman, *Alternate,* Sperry Gyroscope Division, Great Neck, New York

AMERICAN IRON AND STEEL INSTITUTE
F. Dallas, Jr., Sawhill Tubular Division, Sharon, Pennsylvania

AMERICAN MEASURING TOOL MANUFACTURERS ASSOCIATION
D. Dodge, Pennoyer-Dodge Company, Glendale, California
C. W. Jatho, *Alternate,* American Measuring Tool Manufacturers Association, Birmingham, Michigan

AMERICAN PIPE FITTINGS ASSOCIATION
W. C. Farrell, Stockham Valves and Fittings, Birmingham, Alabama

DEFENSE INDUSTRIAL SUPPLY CENTER
E. Schwartz, Defense Industrial Supply Center, Philadelphia, Pennsylvania
F. S. Ciccarone, *Alternate,* Defense Industrial Supply Center, Philadelphia, Pennsylvania

ENGINE MANUFACTURERS ASSOCIATION
G. A. Russ, Cummins Engine Company, Columbus, Indiana

FARM AND INDUSTRIAL EQUIPMENT INSTITUTE
J. F. Nagy, Ford Motor Company, Dearborn, Michigan

INDUSTRIAL FASTENERS INSTITUTE
R. B. Belford, Industrial Fasteners Institute, Cleveland, Ohio
R. M. Harris, Bethlehem Steel Company, Lebanon, Pennsylvania
K. E. McCullough, SPS Technologies, Inc., Jenkintown, Pennsylvania
J. C. McMurray, Russell, Burdsall and Ward Inc., Mentor, Ohio
J. A. Trilling, Holo-Krome Company, West Hartford, Connecticut
E. D. Spengler, *Alternate,* Bethlehem Steel Company, Lebanon, Pennsylvania

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTING INDUSTRY
W. C. Farrell, Stockham Valves and Fitting, Birmingham, Alabama

METAL CUTTING TOOL INSTITUTE (TAP AND DIE DIVISION)
N. F. Nau, Union/Butterfield, Athol, Massachusetts
A. D. Shepherd, Jr., *Alternate,* Union/Butterfield, Derby Line, Vermont

NATIONAL AUTOMATIC SPRINKLER AND FIRE CONTROL ASSOCIATION, INC.
W. Testa, Grinnell Fire Protection Systems Company, Inc., Providence, Rhode Island
R. P. Fleming, *Alternate,* National Automatic Sprinkler and Fire Control Association, Inc., Patterson, New York

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
J. L. Griffin, Wheatland Tube Company, Wheatland, Pennsylvania
J. B. Levy, General Electric Company, Schenectady, New York
F. F. Weingruber, Westinghouse Electric Corp., Pittsburgh, Pennsylvania
W. R. Williford, *Alternate,* National Electrical Manufacturers Association, Washington, D.C.

NATIONAL MACHINE TOOL BUILDERS ASSOCIATION
R. J. Sabatos, The Cleveland Twist Drill Company, Cleveland, Ohio
D. R. Stoner, Jr., Teledyne Landis Machine, Waynesboro, Pennsylvania

NATIONAL SCREW MACHINE PRODUCTS ASSOCIATION
T. S. Meyer, Fischer Special Manufacturing Company, Cold Spring, Kentucky
H. A. Eichstaedt, *Alternate,* National Screw Machine Products Association, Brecksville, Ohio

SOCIETY OF AUTOMOTIVE ENGINEERS
H. W. Ellison, General Motors Technical Center, Warren, Michigan

SOCIETY OF MANUFACTURING ENGINEERS
D. Davidson, Morse/Hemco Corporation, Holland, Michigan

TUBULAR RIVET AND MACHINE INSTITUTE
R. M. Byrne, Industry Service Bureaus, Inc., White Plains, New York

U.S. DEPARTMENT OF THE AIR FORCE
R. P. Stewart, Wright-Patterson, Ohio

U.S. DEPARTMENT OF THE ARMY
F. J. Clas, U.S. Department of the Army, Watervliet, New York
J. Crowley, U.S. Army Material Development and Readiness Command, Alexandria, Virginia
F. L. Jones, *Alternate,* U.S. Army Missle Command, Redstone Arsenal, Alabama

U.S. DEPARTMENT OF DEFENSE
E. Schwartz, Defense Industrial Supply Center, Philadelphia, Pennsylvania

U. S. DEPARTMENT OF THE NAVY
C. T. Gustafson, Portsmouth Naval Shipyard, Portsmouth, New Hampshire

INDIVIDUAL MEMBERS
C. T. Appleton, Jefferson, Massachusetts
J. Boehnlein, PMC Industries, Wickliffe, Ohio
R. Browning, Southern Gage Company, Erin, Tennessee
R. S. Chamerda, The Johnson Gage Company, Bloomfield, Connecticut
J. F. Cramer, Des Moines, Washington
E. W. Drescher, Lancaster, Pennsylvania
D. J. Emanuelli, Greenfield Tap and Die, Greenfield, Massachusetts
C. G. Erickson, Colt Industries — Sterling Die Operation, West Hartford, Connecticut
S. I. Kanter, P.E., The Hanson-Whitney Company, Hartford, Connecticut
R. W. Lamport, The Van Keuren Company, Watertown, Massachusetts
A. R. Machell, Jr., Xerox Corp., Rochester, New York
A. E. Masterson, Watervliet, New York
R. E. Mazzara, Geometric Tool, New Haven, Connecticut
P. V. Pastore, Regal Beloit Corp., South Beloit, Illinois
M. M. Schuster, Hi-Shear Corporation, Torrance, California
A. G. Strang, Boyds, Maryland
A. F. Thibodeau, Swanson Tool Manufacturing, Inc., West Hartford, Connecticut
J. W. Turton, The Bendix Corp., Greenfield, Massachusetts

Subcommittee B1.2 — Screw Thread Gages and Gaging

R. Browning, *Chairman,* Southern Gage Company, Erin, Tennessee
A. F. Thibodeau, *Secretary,* Swanson Tool Manufacturing, Inc., West Hartford, Connecticut
P. F. Bitters, Greenfield Tap and Die, Greenfield, Massachusetts
J. Boehnlein, PMC Industries, Wickliffe, Ohio

D. Cadieux, Greenfield Tap and Die, Greenfield, Massachusetts
R. S. Chamerda, The Johnson Gage Company, Bloomfield, Connecticut
M. Davidson, Morse/Hemco Corp., Holland, Michigan
D. Dodge, Pennoyer-Dodge Company, Glendale, California
H. W. Ellison, General Motors Technical Center, Warren, Michigan
J. J. Fiscella, Latham, New York
G. Garcina, Indianapolis, Indiana
C. T. Gustafson, Metrology Laboratories Division, Portsmouth, New Hampshire
S. I. Kanter, The Hanson-Whitney Company, Hartford, Connecticut
R. W. Lamport, The Van Keuren Company, Watertown, Massachusetts
A. E. Masterson, Watervliet, New York
K. E. McCullough, SPS Technologies, Inc., Jenkintown, Pennsylvania
J. C. McMurray, Russell, Burdsall and Ward, Inc., Mentor, Ohio
J. Preziosi, Amerace-Esna Corp., Union, New Jersey
M. M. Schuster, Hi-Shear Corp., Torrance, California
E. Schwartz, Defense Industrial Supply Center, Philadelphia, Pennsylvania
A. G. Strang, Boyds, Maryland
J. W. Turton, The Bendix Corp., Greenfield, Massachusetts
A. Zaverucha, McMellon Brothers, Stratford, Connecticut

Task Group B1.16 — Gages and Gaging for Metric M Screw Threads

C. G. Erickson, *Chairman,* West Hartford, Connecticut
R. Browning, *Secretary,* Southern Gage Company, Erin, Tennessee
R. S. Chamerda, The Johnson Gage Company, Bloomfield, Connecticut
M. Davidson, H. E. Morse Company, Holland, Michigan
D. Emanuelli, Greenfield Tap and Die, Greenfield, Massachusetts
S. I. Kanter, The Hanson-Whitney Company, Hartford, Connecticut
R. W. Lamport, The Van Keuren Company, Watertown, Massachusetts
K. E. McCullough, SPS Technologies, Inc., Jenkintown, Pennsylvania
J. C. McMurray, Russell, Burdsall, and Ward, Inc., Mentor, Ohio
E. Schwartz, Defense Industrial Supply Center, Philadelphia, Pennsylvania
A. G. Strang, Boyds, Maryland

Intentionally left blank

CONTENTS

Figures

Tables

AN AMERICAN NATIONAL STANDARD

GAGES AND GAGING FOR UNIFIED INCH SCREW THREADS

1 INTRODUCTION

This Standard provides essential specifications and dimensions for the gages used on Unified inch screw threads (UN and UNR thread form), and covers the specifications and dimensions for the thread gages and measuring equipment listed in Tables 1 and 2. The basic purpose and use of each gage are also described.

1.1 References

The latest editions of the following documents form a part of this Standard, to the extent specified herein.

American National Standards

ANSI B1.1	Unified Inch Screw Threads (UN and UNR Thread Form
ANSI B1.3	Screw Thread Gaging Systems for Dimensional Acceptability
ANSI B1.7	Nomenclature, Definitions, and Letter Symbols for Screw Threads
ANSI B46.1	Surface Texture: Surface Roughness, Waviness, and Lay
ANSI B47.1	Gage Blanks
ANSI B89.1.6	Measurement of Qualified Plain Internal Diameters for Use as Master Rings and Ring Gages
ANSI B89.1.9	Precision Inch Gage Blocks for Length Measurement (Through 20 in.)
ANSI B89.3.1	Measurement of Out-of-Roundness

1.2 Classification

In this Standard, the term NOT GO, previously known as HI and LO, is used to identify functional diameter thread gages.

1.3 Federal Government Use

When this Standard is approved by the Department of Defense and federal agencies and is incorporated into FED-STD-H28/6, Screw Thread Standard for Federal Services, Section 6, the use of this Standard by the federal government will be subject to all requirements and limitations of FED-STD-H28/6.

2 BASIC PRINCIPLES

2.1 Accuracy in Gaging

Thread plug gages are controlled by direct measuring methods. Thread ring gages, thread snap limit gages, and indicating thread gages are controlled by reference to the appropriate setting gages or direct measuring methods or both.

2.2 Limitations of Gaging

2.2.1 Product threads accepted by a gage of one type may be verified by other types. It is possible, however, that parts which are near a limit may be accepted by one type and rejected by another. Also, it is possible for two individual limit gages of the same type to be at opposite extremes of the gage tolerances permitted, and borderline product threads accepted by one gage could be rejected by another. For these reasons, a product screw thread is considered acceptable when it passes a test by any of the permissible gages in ANSI B1.3 for the gaging system specified, provided the gages being used are within the tolerances specified in this Standard.

2.2.2 Gaging large product external and internal threads equal to or greater than 6.25 in. nominal size with plain and threaded plug and ring gages presents problems for technical and economic reasons. In these instances, verification may be based on use of modified snap or indicating gages or measurement of thread elements. Various types of gages or measuring devices in addition to those defined in this document are available and acceptable when properly correlated to this Standard. Producer and user should agree on the method and equipment used.

TABLE 1 SCREW THREAD GAGES AND MEASURING EQUIPMENT FOR EXTERNAL PRODUCT THREAD CHARACTERISTICS

Thread Gages and Measuring Equipment	Unified Inch Threads							
	Maximum Material		NOT GO Functional Diameter		Minimum Material			
	GO				Pitch Diam.		Thd. Groove Diam.	
	Func. Limit	Func. Size	Func. Limit	Func. Size	Limit	Size	Limit	Size
	A_1	A_2	B_1	B_2	C_1	C_2	D_1	D_2
1 Split or Solid Threaded Rings (ANSI B47.1) 1.1 GO	●							
1.2 NOT GO (LO)			●					
2 Thread Snap Gages 2.1 GO segments	●							
2.2 NOT GO (LO) segments			●					
2.3 GO rolls	●							
2.4 NOT GO (LO) rolls			●					
2.5 Minimum material — pitch diameter type — cone and vee					●			
2.6 Minimum material — thread groove diameter type — cone only							●	
3 Plain Diameter Gages 3.1 Plain cylindrical ring for major diameter								
3.2 Major diameter snap type								
3.3 Minor diameter snap type								
3.4 Maximum and minimum major diameter snap type								
3.5 Maximum and minimum minor diameter snap type								
4 Indicating Thread Gages Having either two contacts at 180 deg. or three contacts at 120 deg. 4.1 GO segments	●	●	●	●				
4.3 GO rolls	●	●	●	●				
4.5 Minimum material — pitch diameter type — cone and vee					●	●		
4.6 Minimum material — thread groove diameter type — cone only							●	●
4.7 Major diameter and pitch diameter runout gage								

TABLE 1 SCREW THREAD GAGES AND MEASURING EQUIPMENT FOR EXTERNAL PRODUCT THREAD CHARACTERISTICS (CONT'D)

Roundness of Pitch Cylinder				Taper of Pitch Cylinder		Lead Incl. Helix Variation	Flank Angle Variation	Major Diameter		Minor Diameter		Root Rad.	Diam. Runout Major to Pitch	Surface Texture
Oval 180 deg.		Multilobe 120 deg.												
Limit	Size	Limit	Size	Limit	Size			Limit	Size	Limit	Size			
E_1	E_2	F_1	F_2	G_1	G_2	H	I	J_1	J_2	K_1	K_2	L	M	N
										(Note 1)				
•										(Note 1)				
•				•										
•										(Note 1)				
•				•										
•				•										
•				•										
								•						
								•						
										•				
								•						
										•				
•	•	•	•							(Note 1)				
•	•	•	•							(Note 1)				
•	•	•	•	•	•									
•	•	•	•	•	•									
													•	

TABLE 1 SCREW THREAD GAGES AND MEASURING EQUIPMENT FOR EXTERNAL PRODUCT THREAD CHARACTERISTICS (CONT'D)

Thread Gages and Measuring Equipment	Unified Inch Threads							
	Maximum Material		NOT GO Functional Diameter		Minimum Material			
	GO				Pitch Diam.		Thd. Groove Diam.	
	Func. Limit	Func. Size	Func. Limit	Func. Size	Limit	Size	Limit	Size
	A_1	A_2	B_1	B_2	C_1	C_2	D_1	D_2
4.8 Differential segment or roll (GO profile for one pitch in length) used in combination with a GO indicating gage to yield a diameter equivalent for variation in lead (including uniformity of helix); and a minimum material indicating gage to yield a diameter equivalent for variation in flank angle								
5 Indicating Plain Diameter Gages 5.1 Major diameter type								
5.2 Minor diameter type								
6 Pitch Micrometer With Standard Contacts [Approximately NOT GO (LO) Profile] Cone and Vee			●	●				
7 Pitch Micrometer With Modified Contacts [Approximately Pitch Diameter Contact] Cone and Vee					●	●		
8 Thread-Measuring Wires With Suitable Measuring Means							●	●
9 Optical Comparator and Toolmaker's Microscope With Suitable Fixturing					●	●		
10 Profile Tracing Equipment With Suitable Fixturing								
11 Lead Measuring Machine With Suitable Fixturing								
12 Helical Path Attachment Used With GO Type Indicating Gage								
13 Helical Path Analyzer								
14 Plain Micrometer and Calipers — Modified As Required								
15 Surface Measuring Equipment								
16 Roundness Equipment								

NOTE:
(1) Maximum minor diameter limit is acceptable when product passes GO gage on UN and UNR threads.

TABLE 1 SCREW THREAD GAGES AND MEASURING EQUIPMENT FOR EXTERNAL PRODUCT THREAD CHARACTERISTICS (CONT'D)

Roundness of Pitch Cylinder				Taper of Pitch Cylinder		Lead Incl. Helix Variation	Flank Angle Variation	Major Diameter		Minor Diameter		Root Rad.	Diam. Runout Major to Pitch	Surface Texture
Oval 180 deg.		Multilobe 120 deg.												
Limit	Size	Limit	Size	Limit	Size			Limit	Size	Limit	Size			
E_1	E_2	F_1	F_2	G_1	G_2	H	I	J_1	J_2	K_1	K_2	L	M	N
•	•	•	•	•	•	•	•							
								•	•					
										•	•			
•	•			•	•									
•	•			•	•									
•	•			•	•									
•	•	•	•			•	•	•	•	•	•	•	•	
							•					•		•
						•								
						•								
						•								
								•	•					
														•
•	•	•	•											

TABLE 2 SCREW THREAD GAGES AND MEASURING EQUIPMENT FOR INTERNAL PRODUCT THREAD CHARACTERISTICS

Thread Gages and Measuring Equipment	Unified Inch Threads							
	Maximum Material		NOT GO Functional Diameter		Minimum Material			
	GO				Pitch Diam.		Thd. Groove Diam.	
	Func. Limit	Func. Size	Func. Limit	Func. Size	Limit	Size	Limit	Size
	A_1	A_2	B_1	B_2	C_1	C_2	D_1	D_2
1 Threaded Plugs (ANSI B47.1) 1.1 GO	●							
1.2 NOT GO (HI)			●					
2 Thread Snap Gages 2.1 GO segments	●							
2.2 NOT GO (HI) segments			●					
2.3 GO rolls	●							
2.4 NOT GO (HI) rolls			●					
2.5 Minimum material — pitch diameter type — cone and vee					●			
2.6 Minimum material — thread groove diameter type — cone only							●	
3 Plain Diameter Gages 3.1 Plain cylindrical plugs for minor diameter								
3.2 Major diameter snap type								
3.3 Minor diameter snap type								
3.4 Maximum and minimum major diameter snap type								
3.5 Maximum and minimum minor diameter snap type								
4 Indicating Thread Gages Having either two contacts at 180 deg or three contacts at 120 deg. 4.1 GO segments	●	●						
4.3 GO rolls	●	●						

TABLE 2 SCREW THREAD GAGES AND MEASURING EQUIPMENT FOR INTERNAL PRODUCT THREAD CHARACTERISTICS (CONT'D)

Roundness of Pitch Cylinder				Taper of Pitch Cylinder		Lead Incl. Helix Variation	Flank Angle Variation	Major Diameter		Minor Diameter		Root Rad.	Diam. Runout Minor to Pitch	Surface Texture
Oval 180 deg.		Multilobe 120 deg.												
Limit	Size	Limit	Size	Limit	Size			Limit	Size	Limit	Size			
E_1	E_2	F_1	F_2	G_1	G_2	H	I	J_1	J_2	K_1	K_2	L	M	N
								(Note 1)						
								(Note 1)						
								(Note 1)						
•				•										
•				•										
•				•										
										•				
								•						
										•				
								•						
										•				
•	•	•	•						(Note 1)					
•	•	•	•						(Note 1)					

TABLE 2 SCREW THREAD GAGES AND MEASURING EQUIPMENT FOR INTERNAL PRODUCT THREAD CHARACTERISTICS (CONT'D)

Thread Gages and Measuring Equipment	Unified Inch Threads							
	Maximum Material		NOT GO Functional Diameter		Minimum Material			
	GO				Pitch Diam.		Thd. Groove Diam.	
	Func. Limit	Func. Size	Func. Limit	Func. Size	Limit	Size	Limit	Size
	A_1	A_2	B_1	B_2	C_1	C_2	D_1	D_2
4.5 Minimum material — pitch diameter type — cone and vee					●	●		
4.6 Minimum material — thread groove diameter type — cone only							●	●
4.7 Minor diameter and pitch diameter runout gage								
4.8 Differential segment or roll (GO profile for one pitch in length) used in combination with a GO indicating gage to yield a diameter equivalent for variation in lead (including uniformity of helix), and a minimum material indicating gage to yield a diameter equivalent for variation in flank angle								
5 Indicating Plain Diameter Gages 5.1 Major diameter type								
5.2 Minor diameter type								
6 Pitch Micrometer With Standard Contacts [Approximately NOT GO (HI) Profile] Cone and Vee			●	●				
7 Pitch Micrometer With Modified Contacts (Approximately Pitch Diameter Contact) Cone and Vee					●	●		
8 Thread-Measuring Balls With Suitable Measuring Means							●	●
9 Optical Comparator and Toolmaker's Microscope With Suitable Fixturing and Cast Replica					●	●		
10 Profile Tracing Equipment With Suitable Fixturing								
14 Surface Measuring Equipment								
15 Roundness Equipment								

NOTE:
(1) Minimum major diameter limit is acceptable when product passes GO gage.

TABLE 2 SCREW THREAD GAGES AND MEASURING EQUIPMENT FOR INTERNAL PRODUCT THREAD CHARACTERISTICS (CONT'D)

Roundness of Pitch Cylinder				Taper of Pitch Cylinder		Lead Incl. Helix Variation	Flank Angle Variation	Major Diameter		Minor Diameter		Root Rad.	Diam. Runout Minor to Pitch	Surface Texture
Oval 180 deg.		Multilobe 120 deg.												
Limit	Size	Limit	Size	Limit	Size			Limit	Size	Limit	Size			
E_1	E_2	F_1	F_2	G_1	G_2	H	I	J_1	J_2	K_1	K_2	L	M	N
•	•	•	•	•	•									
•	•	•	•	•	•									
													•	
•	•	•	•	•	•	•	•							
								•	•					
										•	•			
•	•			•	•									
•	•			•	•									
•	•			•	•									
						•	•	•	•			•		
							•					•		•
														•
•	•	•	•											

2.2.3 Indicating gages for internal threads smaller than 3/16 in. are not available.

2.3 Determining Size of Gages

2.3.1 Measuring Pitch Diameter. The three-wire method of determining pitch diameter size of thread plug gages is standard for gages in this Standard. Refer to Appendix B.

2.3.2 Size limit adjustments of thread ring and external thread snap gages are determined by their fit on their respective calibrated setting plugs. Indicating gages and thread gages for product external threads are controlled by reference to appropriate calibrated setting plugs.

2.3.3 Size limit adjustments of internal thread snap gages are determined by their fit on their respective calibrated setting rings. Indicating gages and other adjustable thread gages for product internal threads are controlled by reference to appropriate calibrated setting rings or by direct measuring methods.

2.4 Standard Temperature

2.4.1 A temperature of 68°F (20°C) is the standard temperature used internationally for linear measurements. Nominal dimensions of gages and product as specified and actual dimensions as measured shall be within specified limits at this temperature. For screw thread gaging, the acceptable tolerance on the standard temperature is ±2°F (±1°C).

2.4.2 As product threads are frequently checked at temperatures which are not controlled, it is desirable that the coefficient of the thermal expansion of gages be the same as that of the product on which they are used. Inasmuch as the majority of threaded product consists of iron or steel, and screw thread gages are ordinarily made of hardened steel, this condition is usually fulfilled without special attention, provided thread gages and product have stabilized to the same temperature. When the materials of the product thread and the gage are dissimilar, the differing thermal coefficients can cause serious complications and must be taken into account, unless both product and gage at the time of gaging are at a temperature of:

(*a*) 68°F ±4°F (20°C ±2°C) for 1 in. and smaller

(*b*) 68°F ±2°F (20°C ±1°C) for sizes above 1 in. to 3 in.

(*c*) 68°F ±1°F (20°C ±0.5°C) for sizes above 3 in. to 6 in.

3 GENERAL PRACTICE

3.1 General Design

The design of gages is specified only to the extent that it affects the results obtained in the gaging of product threads. Moreover, to serve their intended purposes satisfactorily, thread gages should be produced by the latest and best manufacturing techniques. The type of steel or wear-resistant material selected, together with the heat-treating and stabilization processes, should provide wear life and dimensional stability. Thread gaging elements should be precisely manufactured to assure adequate refinement of surface texture, prevention or elimination of amorphous or smear metal, and uniformity of thread form over the entire length of the gaging member.

3.2 Types of Gages

For GO thread gages, check either the maximum-material limit or size to assure interchangeable assembly. For NOT GO (HI and LO) thread gages, inspect the NOT GO functional diameter limit.

For GO and NOT GO plain cylindrical plug or ring gages and snap or indicating gages, check the limit or size of the minor diameter of product internal threads and the major diameter of product external threads, respectively.

3.3 Interpretation of Tolerances

Tolerances on lead, half-angle, and pitch diameter are variations which may be taken independently for each of these elements and may be taken to the extent allowed by respective tabulated dimensional limits. The tabulated tolerance on any one element must not be exceeded, even though variations in the other two elements are smaller than the respective tabulated tolerances.

3.4 Direction of Tolerances on Gages

At the maximum-material limit (GO), the dimensions of all gages used for final conformance gaging are to be within the limits of size of the product thread. At the functional diameter limit, using NOT GO (HI and LO) thread gages, the standard practice is to have the gage tolerance within the limits of size of the product thread. Specifications for gage limits are listed in Tables 4 and 5.

3.5 Standard Thread Gage Tolerances

Standard tolerances for thread-working gages, thread-setting plugs, and setting rings are as follows:

(*a*) W tolerance, shown in Table 7, represent the highest commercial grade of accuracy and workmanship and are specified for thread-setting gages;

(*b*) X tolerances, shown in Table 6, are larger than W tolerances and are used for product inspection gages.

Unless otherwise specified, all thread gages and gaging contacts which directly check the product thread shall be X tolerance.

3.6 Tolerance on Lead

Cumulative effect of progressive or erratic helix variation and thick or thin end thread variations is specified as an allowable variation between any two threads not farther apart than the length of the standard taperlock or trilock gage, shown in ANSI B47.1. In the case of setting plugs, the specified tolerance shall be applicable to the thread length in the mating ring gage or nine pitches, whichever is smaller. For setting rings, the tolerance applies to a thread length of three pitches. The tolerance on lead establishes the width of a zone, measured parallel to the axis of the thread, within which the actual helical path must lie for the specified length of the thread. Measurements will be taken from a fixed reference point located at the start of the first full thread to a sufficient number of positions along the entire helix to detect all types of lead variations. The amounts that these positions vary from their basic (theoretical) positions will be recorded with due respect to sign. The greatest variation in each direction [plus and minus (±)] will be selected and the sum of their values, *disregarding sign*, shall not exceed the specified tolerance. If the variations are all in one direction, the maximum value governs conformance. In the case of truncated setting plugs, the lead variations present on the full-form portion and the truncated portion of an individual gage shall not differ from each other by more than 0.0001 in. over any portion equivalent to the length of the thread ring gage, or nine pitches, whichever is less. (When linear lead and drunkenness are measured as individual elements and the sum of these does not exceed the tolerance specified, the gage is well within tolerance.)

3.7 Tolerances on Half-Angle

Tolerances are specified for the half-angles rather than the included angle to assure that the bisector of the included angle will be perpendicular to the axis of the thread within proper limits. The equivalent of the variation from the true thread form caused by such irregularities as convex, concave or wavy flanks, rounded crests, or slight projections on the thread form shall not exceed the tolerance permitted on half-angle.

3.8 Check of Effect of Lead and Flank Angle Variations on Product Thread

When this check is specified, there are two general methods available for the inspection procedures involved.

(*a*) *Direct Measurement of Lead and Half-Angle of Flanks.* The lead and flank angles of the product thread may be measured by means of available measuring equipment, such as thread indicating gages, projection comparators, measuring microscopes, graduated cone points, lead measuring machines, helix variation measuring machines, thread flank charting equipment, etc. Diameter equivalents of such variations from nominal may be calculated: each 0.0001 in. variation in lead amounts to 0.00017 in. (1.732 × .00001) increase in functional pitch diameter on external threads or a decrease in functional pitch diameter on internal threads for 60 deg. screw threads. The tangent of half-angle variation times $1.5p$ equals the approximate maximum change in functional pitch diameter, based on a height of thread engagement of $0.625H$ and equal half-angle variations.

(*b*) *Differential Gaging Utilizing Indicating Thread Gages.* See Sections 4 and 5 for explanation and illustration of differential gaging for internal and external threads.

3.9 Calibration Requirements and Standards

Calibration requirements and standards for X tolerance thread gages, snap gages, and indicating gages; Z tolerance plain gages and measuring instruments are given in Table 12 for external product threads, in Table 13 for internal product threads, and in Table 14 for setting gages. See Appendix A for methods of calibrating and inspecting gages.

4 TYPES OF GAGES FOR PRODUCT INTERNAL THREAD

4.1 GO Working Thread Plug Gages (Table 2 — Gage 1.1)

4.1.1 Purpose and Use. The GO thread plug gage inspects the maximum-material GO functional limit, A_1, of product internal thread. The GO thread

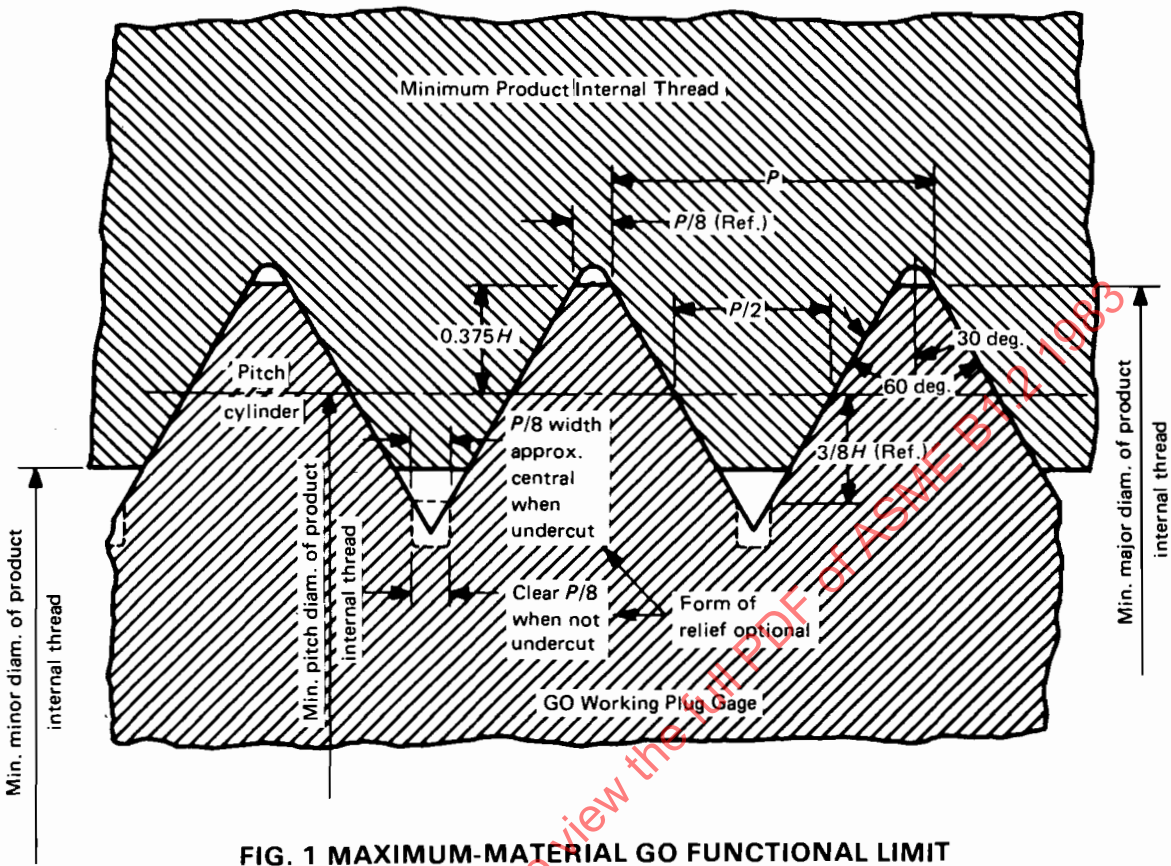


FIG. 1 MAXIMUM-MATERIAL GO FUNCTIONAL LIMIT

gage represents the maximum-material GO functional limit of the product internal thread, and its purpose is to assure interchangeable assembly of maximum-material mating parts. GO thread plug gages must enter and pass through the full-threaded length of the product freely. The GO thread plug gage is a cumulative check of all thread elements except the minor diameter.

4.1.2 Basic Design. The maximum-material limit on GO thread plus gages is made to the prescribed maximum-material limit of the product internal thread, and the gaging length is equal to the length of the gaging plug.

4.1.3 Gage Blanks. For practical and economical reasons, the design and lengths of the gaging plug members have been standardized for various size ranges and pitches (see ANSI B47.1 or Table A3).

4.1.4 Thread Form. The specifications for thread form are summarized in Table 4 and Fig. 1.

4.1.5 Thread Crests. The major diameter of the GO thread plug gage shall be the same as the minimum major diameter of the product internal thread with a plus gage tolerance. The thread crests shall be flat in an axial section and parallel to the axis.

4.1.6 Thread Roots. The minor diameter of the GO thread plug gage shall be cleared beyond a $p/8$ width of flat either by an extension of the sides of the thread toward a sharp vee or by an undercut no greater than $p/8$ maximum width and approximately central.

4.1.7 Runout of Pitch and Major Cylinders. On thread plug gages an eccentric condition produces an oversize effective major diameter having a width of flat less than $p/8$, which may encroach on the minimum permissible limit for the root profile of the product internal thread. The permissible maximum effective major diameter, as determined by adding measurement of runout (full-indicator movement) with respect to the pitch cylinder to the measured

major diameter, shall not exceed the maximum major diameter specified.

4.1.8 Pitch Cylinder. The pitch cylinder shall be round and straight within the gage pitch diameter limits specified.

4.1.9 Lead and Half-Angle Variations. Lead and half-angle variations shall be within the limits specified. See Table 6.

4.1.10 Incomplete Thread. The feather edge at both ends of the threaded section of the gaging member shall be removed. On pitches coarser than 28 threads/in., not more than one complete turn of the end threads shall be removed to obtain a full-thread form blunt start. See Fig. 2. On pitches 28 threads/in. and finer, a 60 deg. chamfer from the axis of the gage is acceptable in lieu of the blunt start.

4.1.11 Chip Grooves. Each GO thread plug gage, except in sizes No. 8 (0.164 in.) and smaller, shall be provided with a chip groove at the entering end. On reversible gages, a chip groove shall be provided at each end. Chip grooves that are in accordance with commercial practice are acceptable, such as a groove cut at an angle with the axis or a longitudinal groove cut parallel with the axis and extending the complete length of the gaging member. The groove shall be located circumferentially at the start of the full thread, and in all cases the depth shall extend below the root of the first full thread. The distance from the major diameter of the thread plug to the crest of the convolution rise in front of the chip groove, due to the radius of the convoluting tool, shall be a minimum of $H/2$ as shown in Fig. 2. The beginning of the first thread shall be full form. The recommended widths for chip grooves are as shown in Table 3.

4.1.12 Identification. The GO thread plugs should be identified by the nominal size, threads/in., thread series, GO, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC GO PD.2175

4.2 NOT GO (HI) Thread Plug Gages (Table 2 — Gage 1.2)

4.2.1 Purpose and Use. The NOT GO (HI) thread plug gage inspects the NOT GO (HI) functional diameter limit, B_1, of product internal thread. The NOT GO (HI) thread plug gage represents the

TABLE 3 RECOMMENDED WIDTHS FOR CHIP GROOVES

Nominal Diameter, in.	Chip Groove Width, in. Max.	Min.
No. 8 (0.164) and smaller	No chip groove required	
Above No. 8 (0.164) to and including No. 12 (0.216)	0.036	0.026
Above No. 12 (0.216) to and including 3/8 (0.375)	0.052	0.042
Above 3/8 (0.375) to and including 1/2 (0.500)	0.067	0.057
Above 1/2 (0.500) to and including 1 (1.000)	0.083	0.067
Above 1 (1.000) to and including 1-3/4 (1.750)	0.130	0.067
Above 1-3/4 (1.750)	0.193	0.067

NOT GO (HI) functional diameter limit of the product internal thread.

Thread plug gages when applied to the product internal thread may engage only the end threads (which may not be representative of the complete thread). Entering threads on product are incomplete and permit gage to start. Starting threads on NOT GO (HI) plugs are subject to greater wear than the remaining threads. Such wear in combination with the incomplete product threads permits further entry of the gage. NOT GO (HI) functional diameter is acceptable when the NOT GO (HI) thread plug gage applied to the product internal thread does not enter more than three complete turns. The gage should not be forced. Special requirements such as exceptionally thin or ductile material, small number of threads, etc., may necessitate modification of this practice.

4.2.2 Basic Design. To better check the maximum functional diameter limit, the flank contact is reduced by truncating the major diameter, and the length of the gaging element, where practical, is less than that of the GO gage.

4.2.3 Gage Blanks. For practical and economic reasons, the designs and lengths of the gaging elements have been standardized for various size ranges and pitches (see ANSI B47.1 or Table A3).

4.2.4 Thread Form. The specifications for thread form are summarized in Table 4 and Fig. 3.

4.2.5 Thread Crests. The maximum major diameter of the NOT GO (HI) thread plug gage shall

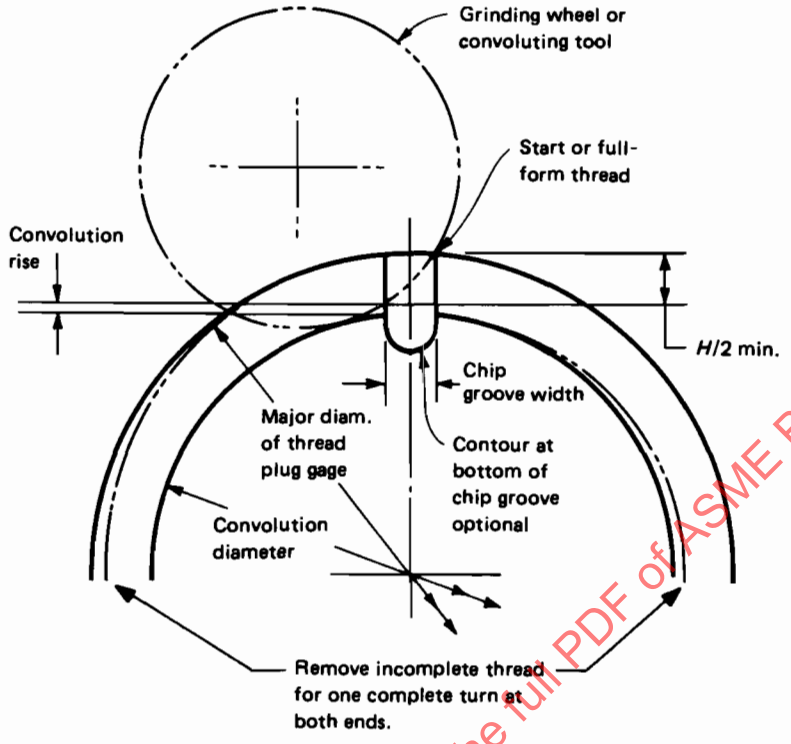


FIG. 2 PARTIAL END THREADS AND CHIP GROOVES

be equal to the maximum pitch diameter of the product internal thread plus $0.5H$ with the gage tolerance minus. This corresponds to a width of flat at the crest of the gage equal to $0.25p$. See Table 4.

4.2.6 Thread Roots. The minor diameter of the NOT GO (HI) thread plug gage shall be cleared beyond a $p/8$ width of flat by an extension toward a sharp vee of the sides of the thread from the position corresponding to this approximate width; or by an undercut to any dimension no wider than the width resulting from a $p/8$ maximum width, either side of and approximately central with the center line of the thread groove.

4.2.7 Runout of Pitch and Major Cylinders. The permissible maximum effective diameter, as determined by adding measurements of runout (full-indicator movement) with respect to the pitch cylinder to the measured major diameter, shall not exceed the maximum major diameter specified.

4.2.8 Pitch Cylinder. The pitch cylinder shall be round and straight within the gage pitch diameter limits specified.

4.2.9 Lead and Half-Angle Variations. Lead and half-angle variations shall be within the limits specified. See Table 6.

4.2.10 Incomplete Thread. The feather edge at both ends of the threaded section of the gaging member shall be removed. On pitches coarser than 28 threads/in., not more than one complete turn of the end threads shall be removed to obtain a full-thread blunt start. See Fig. 2. On pitches 28 threads/in. and finer, a 60 deg. chamfer from the axis of the gage is acceptable in lieu of the blunt start.

4.2.11 Identification. The NOT GO (HI) thread plug gage should be marked with the nominal size, threads/in., thread series, class, NOT GO, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2B NOT GO PD.2224

4.3 Thread Snap Gages — GO Segments or Rolls (Table 2 — Gages 2.1 and 2.3)

4.3.1 Purpose and Use. The thread snap gage with two GO threaded segments or two GO zero lead

TABLE 4 SPECIFICATIONS AND FORMAT FOR TABLES 10 AND 11 — LIMITS OF SIZE OF THREADED AND PLAIN GAGES FOR UNIFIED EXTERNAL AND INTERNAL THREADS

Nominal Size and Threads/in.				1	(To be specified)
Series Designation and Tolerance Class				2	Of external thread to be checked
Gages for External Threads	Thread gages	GO	Pitch diameter	3	Max. pitch diameter of external thread; gage tolerance minus
			Minor diameter	4	Max. pitch diameter of external thread; minus $H/2$; gage tolerance minus
		NOT GO (LO)	Pitch diameter	5	Min. pitch diameter of external thread; gage tolerance plus
			Minor diameter	6	Min. pitch diameter of external thread minus $0.25H$; gage tolerance plus
	Plain gages for major diameter	GO		7	Max. major diameter of external thread; gage tolerance minus
		NOT GO		8	Min. major diameter of external thread; gage tolerance plus
Gages for Internal Threads	Thread gages	GO	Major diameter	9	Min. major diameter of internal thread; gage tolerance plus
			Pitch diameter	10	Min. pitch diameter of internal thread; gage tolerance plus
		NOT GO (HI)	Major diameter	11	Max. pitch diameter of internal thread plus $H/2$; gage tolerance minus
			Pitch diameter	12	Max. pitch diameter of internal thread; gage tolerance minus
	Plain gages for minor diameter	GO		13	Min. minor diameter of internal thread; gage tolerance plus
		NOT GO		14	Max. minor diameter of internal thread; gage tolerance minus
Series Designation and Tolerance Class				15	Of internal thread to be checked

rolls inspects the maximum-material GO functional limit, A_1, of product internal thread. The setting of the GO segments or rolls represents the maximum-material GO functional limit of the product internal thread, and its purpose is to assure interchangeable assembly of maximum-material mating parts. The segments or rolls theoretically engage over the full-threaded length of the product. The segments or rolls have a cumulative check of all thread elements except the minor diameter.

Internal thread snap gages by design must have an outside diameter of gaging elements below minor diameter of internal thread in order to enter. The gage checks all thread elements by sensing the resistance of contact after being set to a master.

The GO thread snap gage can also indicate out-of-roundness of pitch cylinder for 180 deg. ovality by using the gage at different internal diametral locations on the product thread.

4.3.2 Basic Design. The GO segments and rolls assembled into gage frames are the design of the individual gage manufacturer. The lengths of the two threaded segments and the two thread rolls spaced 180 deg. apart are equivalent to the standard gage blank lengths for practical and economic reasons. See Table A3 and Fig. 4. Internal product threads less than 3/16 in. in diameter are not practical to check with snap gages. GO thread segments shall engage 25% or more of the product circumference. Product shall be

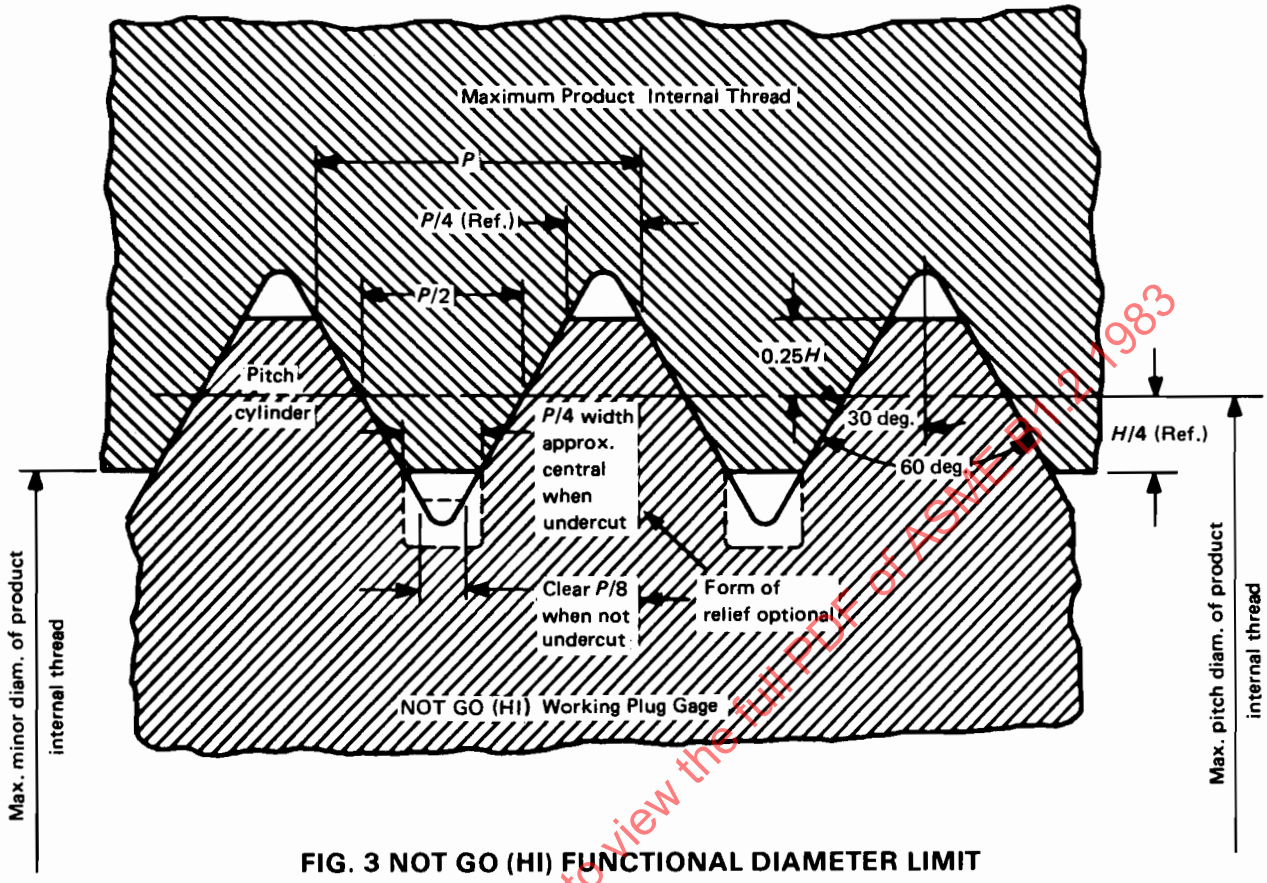


FIG. 3 NOT GO (HI) FUNCTIONAL DIAMETER LIMIT

checked around circumference of thread at sufficient axial positions to check the full-thread length. Thread rolls shall be applied at several locations (three if possible) axially over the full-thread length of product. The circumference shall be checked at each position.

4.3.3 Thread Form. The specifications for thread form are summarized in Table 4 and Fig. 4.

4.3.4 Thread Crests. The outside diameter of the threaded portion of the GO segments or rolls has the equivalent of a $P/8$ flat on the thread with a plus gage tolerance. The thread crest shall be flat in an axial section and parallel to the axis of the gaging member.

4.3.5 Thread Roots. The minor diameter of the threaded portion of the GO segments or rolls shall be cleared beyond a $P/8$ flat either by an extension of the flanks of the thread toward a sharp vee or by an undercut no greater than $P/8$ maximum width and approximately central.

4.3.6 Runout. The pitch and major cylinders of the threaded portion of the GO segments or rolls shall not exceed the runout as determined by measurements of runout (full-indicator movement) on each gaging member, with respect to the pitch cylinder. Runout shall not exceed one-half the X gage major diameter tolerance.

4.3.7 Pitch Cylinder. The pitch cylinder of the threaded portion of the GO segments or rolls shall be straight and round within the X gage pitch diameter limits specified.

4.3.8 Lead, Pitch, and Half-Angle Variations. Lead, pitch, and half-angle variations shall be within the limits specified. See Table 6.

4.3.9 Identification. The assembled gage should be marked by the nominal size, threads/in., thread series, GO, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC GO PD.2175

TABLE 5 SPECIFICATIONS AND FORMAT FOR TABLES 10 AND 11 — LIMITS OF SIZE OF THREAD-SETTING GAGES FOR UNIFIED THREAD WORKING GAGES

Nominal Size and Threads/in.				1	(To be specified)
Series Designation and Tolerance Class				2	Of external thread to be checked by gage set with plug
Full-Form and Truncated Setting Plugs	Plug for GO	Major diameter	Truncated*	3	Max. major diam. of external thread (equals min. major diam. of full portion of GO setting plug) minus ($0.060\sqrt[3]{p^2} + 0.017p$); gage tolerance minus
			Full-form	4	Max. major diameter of external thread; gage tolerance plus
		Pitch diameter		5	Max. pitch diameter of external thread; gage tolerance minus
	Plug for NOT GO (LO)	Major diameter	Truncated* (Note 1)	6	Min. pitch diameter of external thread plus $H/2$; gage tolerance minus
			Full-form	7	Max. major diameter of external thread provided major diameter crest width shall not be less than 0.001 in. (0.0009 in. truncation). Apply W tolerance plus for max. size except that for 0.001 in. crest width apply tolerance minus. For the 0.001 in. crest width, major diameter is equal to maximum major diameter of external thread plus $0.216506p$ minus the sum of external thread pitch diameter tolerance and 0.0017 in.
		Pitch diameter		8	Min. pitch diameter of external thread; gage tolerance plus
Solid Thread-Setting Rings for Snap and Indicating Gages		Ring for GO	Pitch diameter (Note 2)	9	Min. pitch diameter of internal thread; W gage tolerance plus
			Minor diameter	10	Min. minor diameter of internal thread; W gage tolerance minus
		Ring for NOT GO (HI)	Pitch diameter (Note 2)	11	Max. pitch diameter of internal thread; W gage tolerance minus
			Minor diameter	12	Max. minor diameter of internal thread; W gage tolerance minus
Series Designation and Tolerance Class				13	Of internal thread to be checked by gage set with ring

* Indicated rows apply to truncated setting plugs only.

NOTES:

(1) Truncated portion is required when optional sharp root profile in Figs. 18, 19, 20, 21, and 26 is used.

(2) Tolerances greater than W tolerance for pitch diameter are acceptable when internal indicating or snap gage can accomodate a greater tolerance and when agreed upon by supplier and user.

TABLE 6 X GAGE TOLERANCES FOR THREAD GAGES

Threads/in.	Tolerance on Lead, in. (Notes 1, 3)	Tolerance on Half-Angle of Thread, deg. ± min.	Tolerance on Major or Minor Diameters (Note 4)		Tolerance on Pitch Diameter (Notes 2, 4)			
			To and Including 4 in. Diam.	Above 4 in. Diam.	To and Including 1½ in. Diam.	Above 1½ in. to 4 in. Diam.	Above 4 in. to 8 in. Diam.	Above 8 in. to 12 in. Diam. (Note 2)
1	2	3	4	5	6	7	8	9
80	0.0002	0 30	0.0003	. . .	0.0002	. . .	. . .	. . .
72	.0002	0 30	.0003	. . .	.0002	. . .	. . .	. . .
64	.0002	0 30	.0004	. . .	.0002	. . .	. . .	. . .
56	.0002	0 30	.0004	. . .	.0002	0.0003	. . .	. . .
48	.0002	0 30	.0004	. . .	.0002	.0003	. . .	. . .
44	.0002	0 20	.0004	. . .	.0002	.0003	. . .	. . .
40	.0002	0 20	.0004	. . .	.0002	.0003	. . .	. . .
36	.0002	0 20	.0004	. . .	.0002	.0003	. . .	. . .
32	.0003	0 15	.0005	0.0007	.0003	.0004	0.0005	0.0006
28	.0003	0 15	.0005	.0007	.0003	.0004	.0005	.0006
27	.0003	0 15	.0005	.0007	.0003	.0004	.0005	.0006
24	.0003	0 15	.0005	.0007	.0003	.0004	.0005	.0006
20	.0003	0 15	.0005	.0007	.0003	.0004	.0005	.0006
18	.0003	0 10	.0005	.0007	.0003	.0004	.0005	.0006
16	.0003	0 10	.0006	.0009	.0003	.0004	.0006	.0008
14	.0003	0 10	.0006	.0009	.0003	.0004	.0006	.0008
13	.0003	0 10	.0006	.0009	.0003	.0004	.0006	.0008
12	.0003	0 10	.0006	.0009	.0003	.0004	.0006	.0008
11½	.0003	0 10	.0006	.0009	.0003	.0004	.0006	.0008
11	.0003	0 10	.0006	.0009	.0003	.0004	.0006	.0008
10	.0003	0 10	.0006	.0009	.0003	.0004	.0006	.0008
9	.0003	0 10	.0007	.0011	.0003	.0004	.0006	.0008
8	.0004	0 5	.0007	.0011	.0004	.0005	.0006	.0008
7	.0004	0 5	.0007	.0011	.0004	.0005	.0006	.0008
6	.0004	0 5	.0008	.0013	.0004	.0005	.0006	.0008
5	.0004	0 5	.0008	.0013	. . .	.0005	.0006	.0008
4½	.0004	0 5	.0008	.0013	. . .	.0005	.0006	.0008
4	.0004	0 5	.0009	.0015	. . .	.0005	.0006	.0008

NOTES:
(1) Allowable variation in lead between any two threads shall not be farther apart than the length of the standard gage that is shown in ANSI B47.1.
(2) Above 12 in., the tolerance is directly proportional to the tolerance in col. 9, in the ratio of the diameter to 12 in.
(3) See 5.13.9.
(4) Tolerances apply to designated size of thread. Apply tolerances in accordance with Table 4.

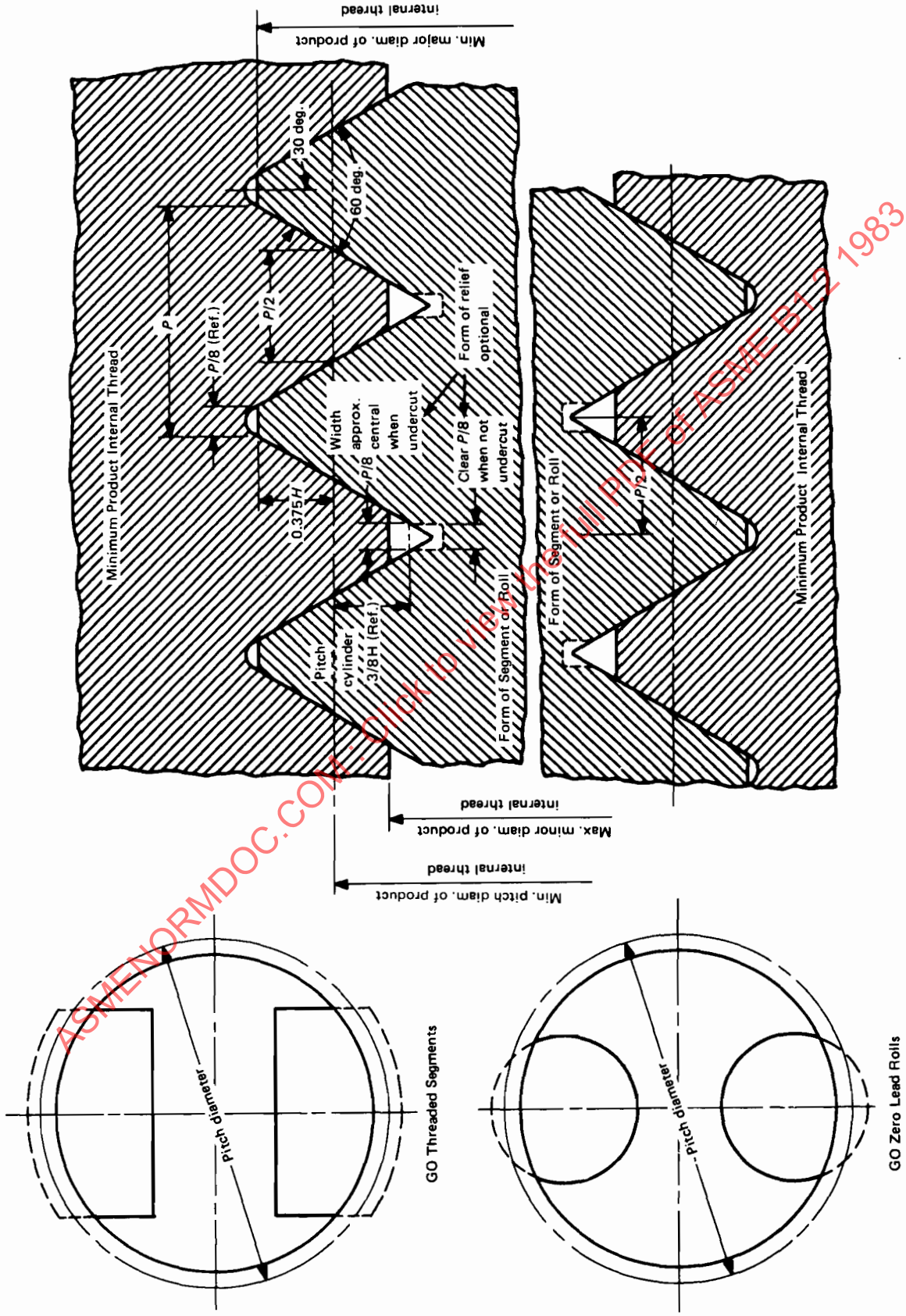


FIG. 4 THREAD SNAP GAGES — MAXIMUM-MATERIAL GO FUNCTIONAL LIMIT

4.4 Thread Snap Gages — NOT GO (HI) Segments or Rolls (Table 2 — Gages 2.2 and 2.4)

4.4.1 Purpose and Use. The thread snap gage with two NOT GO (HI) segments or two NOT GO (HI) rolls inspects the NOT GO (HI) functional diameter limit, B_1, of product internal thread. The setting of the NOT GO (HI) segments or rolls represents the maximum functional diameter limit of the product internal thread. In applying the thread snap limit gage, the NOT GO (HI) functional diameter is acceptable when gaging elements do not pass the product thread.

Internal thread snap gages by design must have an outside diameter of gaging elements below minor diameter of internal thread in order to enter. The gage checks the NOT GO functional diameter limit by sensing the resistance to contact after being set to master.

The NOT GO (HI) thread snap gage will also indicate out-of-roundness of the pitch cylinder for 180 deg. ovality by using the gage at different diametral locations on internal thread. The NOT GO (HI) thread snap gage will also check for taper of pitch cylinder by using the gage at different locations axially on internal thread.

4.4.2 Basic Design. In order that the NOT GO (HI) thread snap gage may effectively check the NOT GO (HI) functional diameter limit, the flank contact is reduced by truncating the thread on segments and rolls. As the design of the segments and rolls are different with each gage manufacturer, the number of threads engaged in product thread will vary. Usually, the number of pitches engaged is approximately two. Internal product threads less than 3/16 in. in diameter are not practical to check with snap gages.

4.4.3 Thread Form. The specifications for thread form are summarized in Table 4 and Fig. 5.

4.4.4 Thread Crests. The maximum major diameter of the NOT GO (HI) segments and rolls shall be equal to the pitch diameter of segment or roll plus $0.5H$ with the gage tolerance minus. This corresponds to a width of flat at the crest equal to $0.25p$. See Table 4.

4.4.5 Thread Roots. The minor diameter of the NOT GO (HI) segments and rolls shall be cleared beyond a $P/8$ width of flat by an extension toward a sharp vee of the sides of the thread or by an undercut to any dimension no wider than $P/4$. Undercut is to be approximately central with the center line of the thread groove. See Fig. 5.

4.4.6 Runout. The pitch and major cylinders of the threaded portion of the NOT GO (HI) segments or rolls shall not exceed the runout as determined by measurements of runout (full-indicator reading) on each gaging member, with respect to the pitch cylinder. Runout shall not exceed one-half the X gage major diameter tolerance.

4.4.7 Pitch Cylinder. The pitch cylinder of the threaded portion of the NOT GO (HI) segments or rolls shall be round within the X gage pitch diameter limits specified.

4.4.8 Lead, Pitch, and Half-Angle Variations. Lead, pitch, and half-angle variations shall be within the limits specified. See Table 6.

4.4.9 Identification. The assembled gage should be marked by the nominal size, threads/in., thread series, class, NOT GO, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2B NOT GO PD.2224

4.5 Thread Snap Gages — Minimum Material: Pitch Diameter Cone and Vee (Table 2 — Gage 2.5)

4.5.1 Purpose and Use. The thread snap gage with two segments or two rolls, both made to cone and vee design as shown in Fig. 6, inspects the minimum-material limit pitch diameter, C_1, of the product internal thread.

Internal thread snap gages by design must have an outside diameter of gaging elements below minor diameter of internal thread in order to enter. The gage checks the minimum-material pitch diameter limit by sensing the resistance of contact after being set to master.

The cone and vee snap gage can check roundness of pitch cylinder for 180 deg. ovality by using the gage at different diametral locations on internal thread.

The cone and vee snap gage can check taper of pitch cylinder by using the gage at different locations axially on internal thread.

4.5.2 Basic Design. The segments are usually made having a surface contact slightly above the pitch line near the center of the flank. The rolls are made with a point or line contact approximately at the pitch line, depending upon the angle variations of the

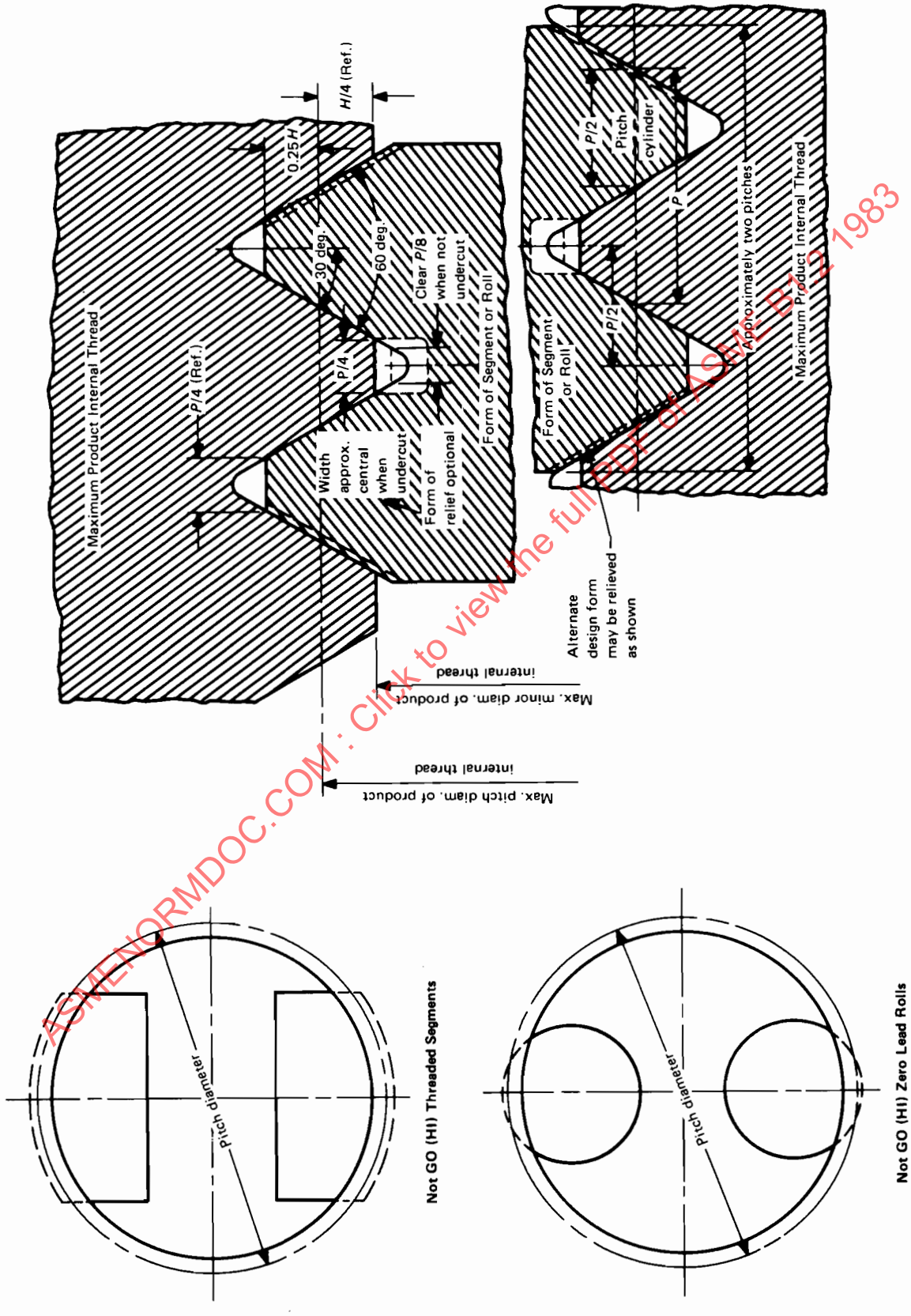


FIG. 5 THREAD SNAP GAGES — NOT GO (HI) FUNCTIONAL DIAMETER LIMIT

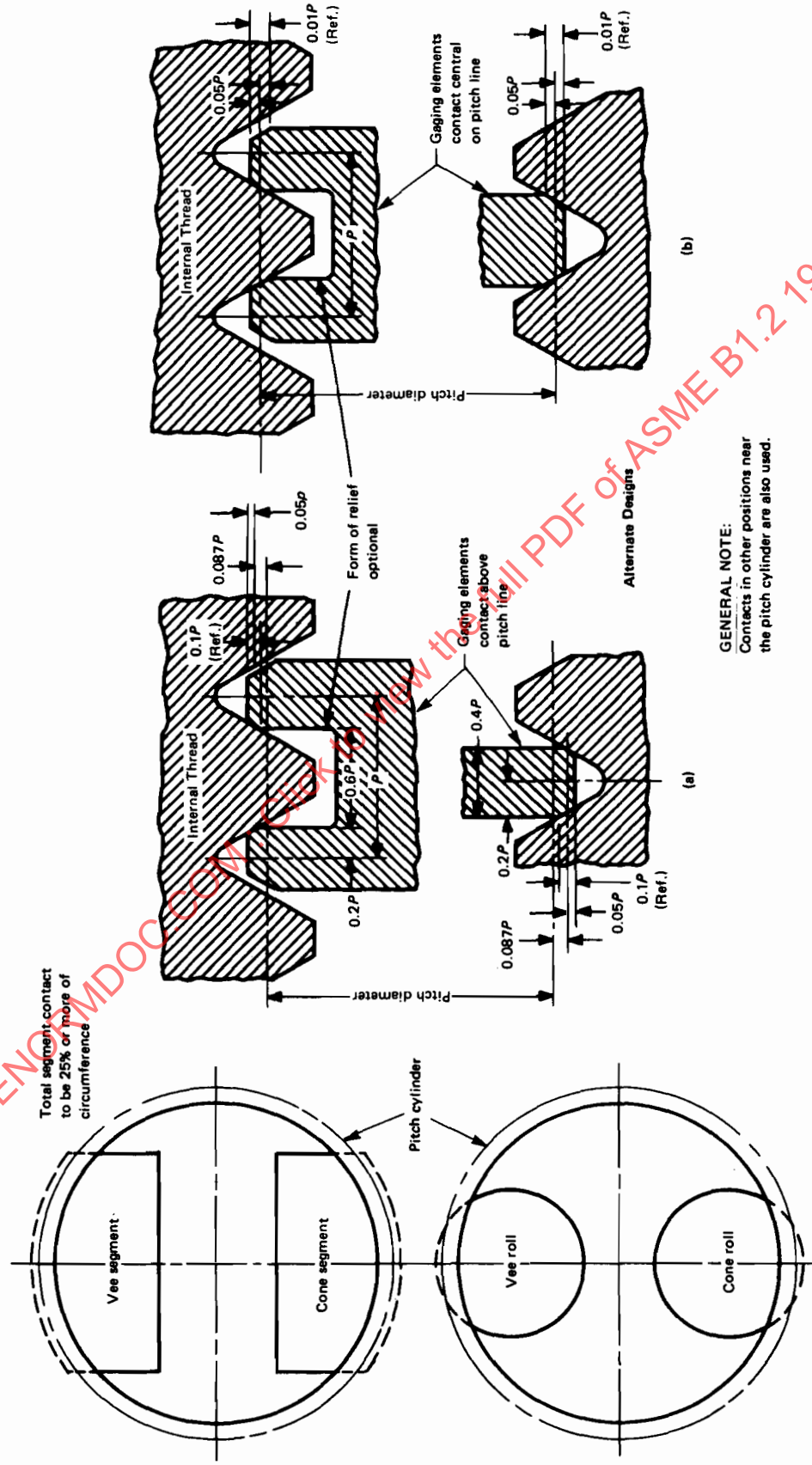


FIG. 6 THREAD SNAP GAGES — MINIMUM-MATERIAL PITCH DIAMETER LIMIT — CONE AND VEE

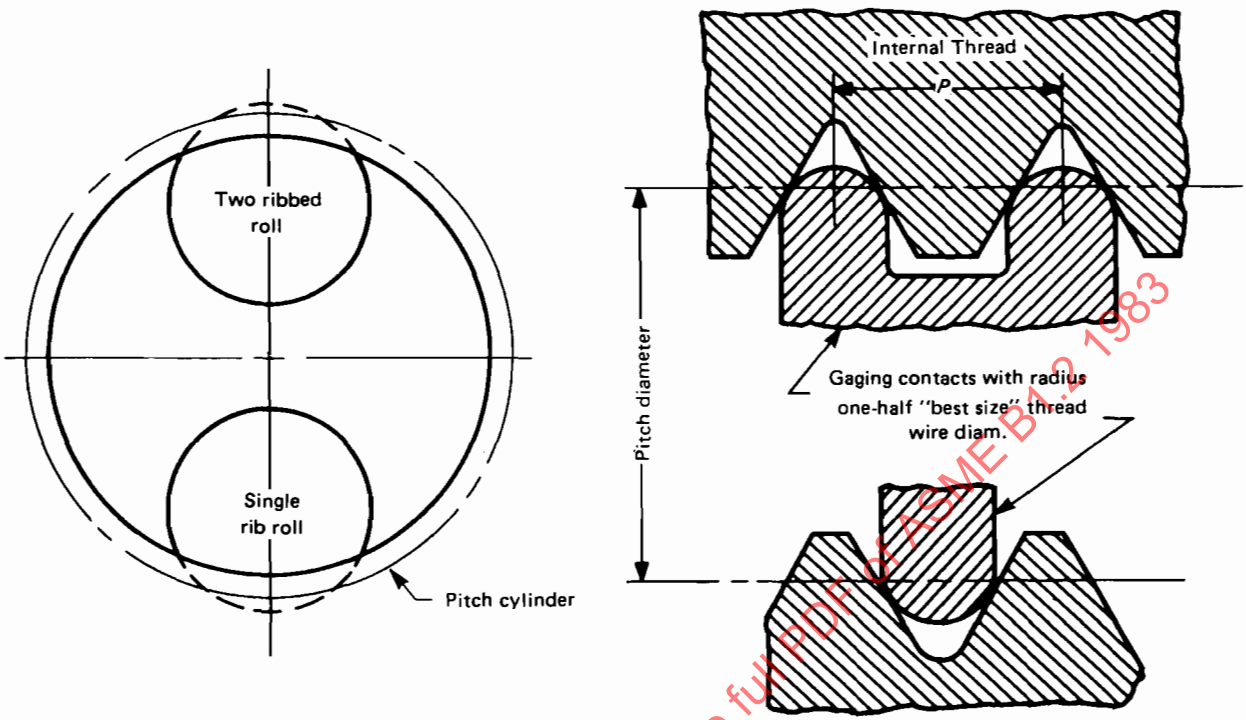


FIG. 7 THREAD SNAP GAGES — MINIMUM-MATERIAL THREAD GROOVE DIAMETER LIMIT

thread flanks. See Fig. 6 for details. Internal product threads less than 3/16 in. in diameter are not practical to check with snap gages.

4.5.3 Thread Form. The specifications for thread form, thread crests, and thread roots are summarized in Fig. 6.

4.5.4 Identification. The assembled gage should be marked by the nominal size, threads/in., thread series, class, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2B PD.2224

4.6 Thread Snap Gages — Minimum Material: Thread Groove Diameter Type (Table 2 — Gage 2.6)

4.6.1 Purpose and Use. The thread snap gage with two rolls with "best size" thread wire radius contacts inspects the minimum-material limit pitch diameter, D_1, of the product internal thread.

Internal thread snap gages by design must have an outside diameter of gaging elements below minor diameter of internal thread in order to enter. The gage checks the minimum-material pitch diameter limit by sensing the resistance of contact after being set to master.

The roll thread snap gage will check roundness of the pitch cylinder for 180 deg. ovality by using the gage at different diametral locations.

Also, the roll thread snap gage will check taper of the pitch cylinder by using the gage at different locations axially.

4.6.2 Basic Design. The "best size" thread wire radius contacts on the rolls check the threads at the pitch cylinder. Ribs on roll contacts are made one pitch apart. Internal product threads less than 3/16 in. in diameter are not practical to check with snap gages.

4.6.3 Thread Form. The specifications for the form on gage rolls are summarized in Fig. 7.

4.6.4 Identification. The assembled gage with rolls should be marked with the nominal size, threads/in., thread series, class, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2B PD.2224

4.7 Thread-Setting Solid Ring Gages

4.7.1 Purpose and Use. Thread-setting ring gages are used for setting internal thread indicating and snap gages. GO thread-setting ring gages are made to the maximum-material limit of the internal thread specification and NOT GO (HI) thread-setting rings to the minimum-material limit. Setting rings under 3/16 in. diameter are too small to be practical.

4.7.2 Gage Blanks. GO and NOT GO (HI) solid thread ring gage blanks have been standardized for various size ranges and pitches. (See ANSI B47.1.) Length of gage thread is a minimum of four pitches.

4.7.3 The GO and NOT GO (HI) thread-setting gage threads are stated in detail below and are summarized in Tables 5, 7, and 11, and Fig. 8.

4.7.4 Thread Crests

4.7.4.1 The minor diameter of the GO setting ring gage is equal to the minimum minor diameter of the internal thread.

4.7.4.2 The minor diameter of the NOT GO (HI) setting ring gage is equal to the maximum minor diameter of the internal thread.

4.7.5 Thread Roots

4.7.5.1 The major diameter of the GO setting ring gage shall be cleared beyond $P/8$ width of flat by either an extension of the flanks toward a sharp vee or by a clearance cut of substantially $P/8$ width and approximately central.

4.7.5.2 The major diameter of the NOT GO (HI) setting ring gage shall be cleared by a clearance cut of substantially $0.25p$ width and approximately central. The form is optional; it may clear a $P/8$ flat if not undercut.

4.7.6 Runout of Pitch and Minor Diameter Cylinders for Sizes 3/16 in. and Larger. The pitch and minor cylinders of setting ring gages shall not exceed the runout as stated hereinafter. The permissible minimum effective minor diameter as determined by runout (full-indicator movement) with respect to the pitch cylinder subtracted from measured minor diameter shall not be less than the specified minimum minor diameter minus the sum of the W gage tolerances for pitch and minor diameter for GO setting gages, and minus twice the sum for NOT GO (HI) setting gages.

4.7.7 Pitch Cylinder. Conformance of these elements is normally determined by the manufacturing of the setting ring gages to the applicable setting plug gage.

4.7.8 Pitch Diameter Limitation of Taper. The taper shall be within gage pitch diameter limits.

4.7.9 Lead and Half-Angle. Lead and half-angle variations shall be within limits specified in Table 7.

4.7.10 Incomplete Threads. The feather edge at both ends of the thread ring gage shall be removed. On gages larger than 1/2 in. nominal size, or having pitches coarser than 20 threads/in., not more than one complete turn of the end threads shall be removed to obtain a full-thread blunt start. On gages 1/2 in. nominal size and smaller, or having pitches of 20 threads/in. or finer, a 60 deg. chamfer from the axis of the gage is acceptable in lieu of the blunt start.

4.7.11 Identification. The GO and NOT GO (HI) thread-setting ring gages should be identified by nominal size, threads/in., thread series, GO or NOT GO, class on NOT GO; SETTING, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC GO SETTING PD.2175
1/4-20 (or .250-20) UNC-2B NOT GO SETTING PD.2224

4.8 Plain Plug, Snap, and Indicating Gages to Check Minor Diameter of Internal Thread

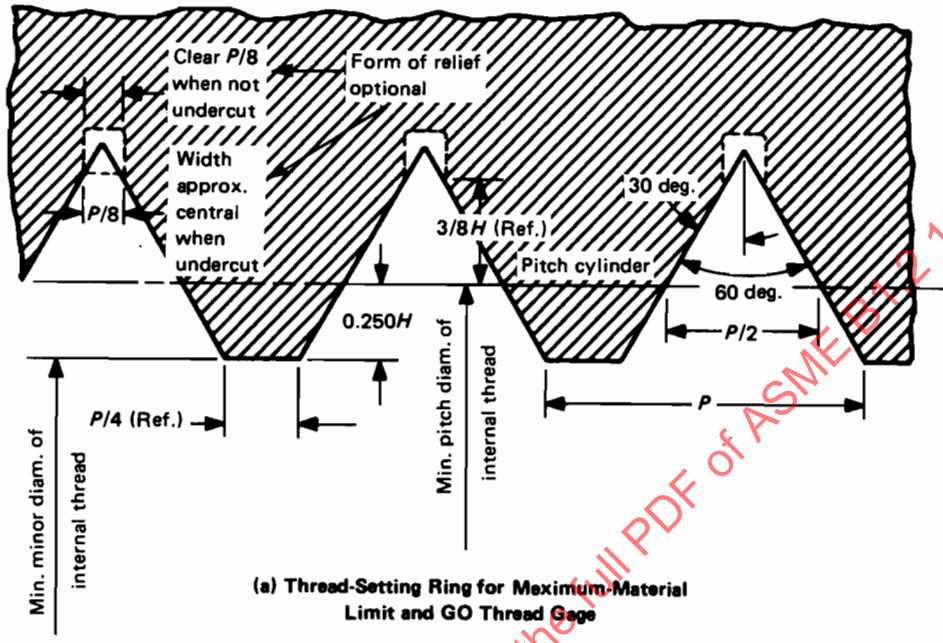
4.8.1 Purpose and Use. The GO and NOT GO (HI) thread gages of all designs are cleared at the root but do not check the minor diameter of the product internal thread. Accordingly, the following paragraphs (4.8.1 through 4.8.6) describe types of plain diameter gage or precision instruments used to check the maximum- and minimum-material limits of the minor diameter.

4.8.2 GO and NOT GO Plain Cylindrical Plug Gages (Table 2 — Gage 3.1). Plug gages shall be made to Z tolerances and as shown in Fig. 9. GO shall be made to plus tolerance; NOT GO shall be made to minus tolerance. GO cylindrical plug gage must enter and pass through the length of the product without force. NOT GO cylindrical plug must not enter. See Table 8 for gage tolerances.

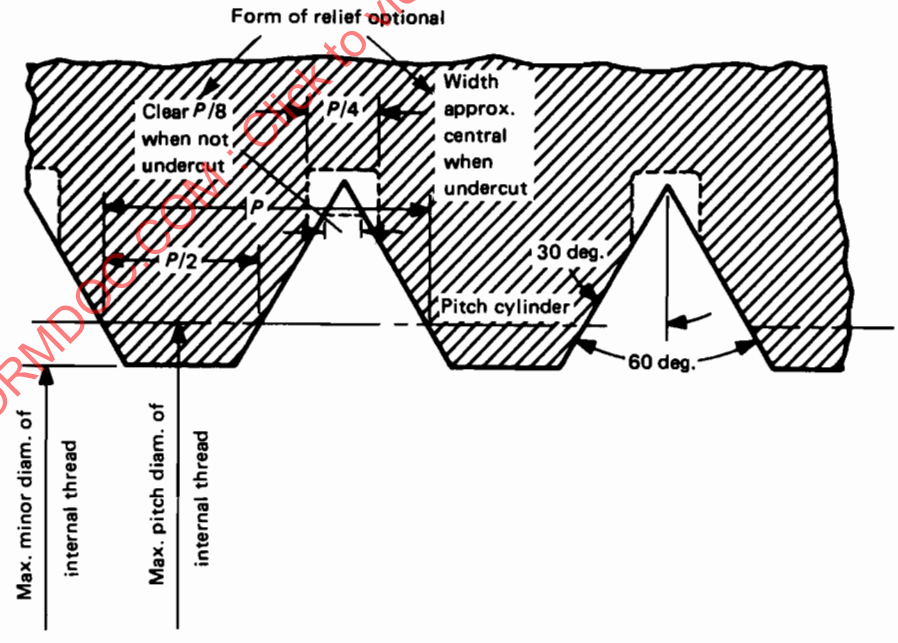
TABLE 7 W GAGE TOLERANCES FOR THREAD GAGES

Threads/in.	Tolerance on Lead[1,3]		Tolerance on Half-Angle of Thread, deg. ± min.		Tolerance on Major or Minor Diameters[4]			Tolerance on Pitch Diameter[2, 4]				
	To and Including ½ in. Diam.	Above ½ in. Diam.			To and Including ½ in. Diam.	Above ½ in. to 4 in. Diam.	Above 4 in. Diam.	To and Including ½ in. Diam.	Above ½ in. to 1½ in. Diam.	Above 1½ in. to 4 in. Diam.	Above 4 in. to 8 in. Diam.	Above 8 in. to 12 in. Diam.[2]
1	2	3	4		5	6	7	8	9	10	11	12
80	0.0001	0.00015	0	20	0.0003	0.0003	. . .	0.0001	0.00015	. . .	. . .	. . .
72	.0001	.00015	0	20	.0003	.0003	. . .	.0001	.00015	. . .	. . .	. . .
64	.0001	.00015	0	20	.0003	.0004	. . .	.0001	.00015	. . .	. . .	. . .
56	.0001	.00015	0	20	.0003	.0004	. . .	.0001	.00015	0.0002	. . .	. . .
48	.0001	.00015	0	18	.0003	.0004	. . .	.0001	.00015	.0002	. . .	. . .
44	.0001	.00015	0	15	.0003	.0004	. . .	.0001	.00015	.0002	. . .	. . .
40	.0001	.00015	0	15	.0003	.0004	. . .	.0001	.00015	.0002	. . .	. . .
36	.0001	.00015	0	12	.0003	.0004	. . .	.0001	.00015	.0002	. . .	. . .
32	.0001	.00015	0	12	.0003	.0005	0.0007	.0001	.00015	.0002	0.00025	0.0003
28	.00015	.00015	0	8	.0005	.0005	.0007	.0001	.00015	.0002	.00025	.0003
27	.00015	.00015	0	8	.0005	.0005	.0007	.0001	.00015	.0002	.00025	.0003
24	.00015	.00015	0	8	.0005	.0005	.0007	.0001	.00015	.0002	.00025	.0003
20	.00015	.00015	0	8	.0005	.0005	.0007	.0001	.00015	.0002	.00025	.0003
18	.00015	.00015	0	8	.0005	.0005	.0007	.0001	.00015	.0002	.00025	.0003
16	.00015	.00015	0	8	.0006	.0006	.0009	.0001	.0002	.00025	.0003	.0004
14	.0002	.0002	0	6	.0006	.0006	.0009	.0015	.0002	.00025	.0003	.0004
13	.0002	.0002	0	6	.0006	.0006	.0009	.0015	.0002	.00025	.0003	.0004
12	.0002	.0002	0	6	.0006	.0006	.0009	.0015	.0002	.00025	.0003	.0004
11½	.0002	.0002	0	6	.0006	.0006	.0009	.0015	.0002	.00025	.0003	.0004
11	.0002	.0002	0	6	.0006	.0006	.0009	.0015	.0002	.00025	.0003	.0004
10	. . .	.00025	0	6	. . .	.0006	.0009	. . .	.0002	.00025	.0003	.0004
9	. . .	.00025	0	6	. . .	.0007	.0011	. . .	.0002	.00025	.0003	.0004
8	. . .	.00025	0	5	. . .	.0007	.0011	. . .	.0002	.00025	.0003	.0004
7	. . .	.0003	0	5	. . .	.0007	.0011	. . .	.0002	.00025	.0003	.0004
6	. . .	.0003	0	5	. . .	.0008	.0013	. . .	.0002	.00025	.0003	.0004
5	. . .	.0003	0	4	. . .	.0008	.0013	. . .	. . .	.00025	.0003	.0004
4½	. . .	.0003	0	4	. . .	.0008	.0013	. . .	. . .	.00025	.0003	.0004
4	. . .	.0003	0	4	. . .	.0009	.0015	. . .	. . .	.00025	.0003	.0004

NOTES:
(1) Allowable variation in lead between any two threads shall not be farther apart than the length of the standard gage that is shown in ANSI B47.1.
(2) Above 12 in., the tolerance is directly proportional to the tolerance in col. 12, in the ratio of the diameter to 12 in.
(3) See 5.13.9.
(4) Tolerances apply to designated size of thread. Apply tolerance in accordance with Table 5.



(a) Thread-Setting Ring for Meximum-Material Limit and GO Thread Gage



(b) Thread-Setting Ring for Minimum-Material Limit and NOT GO (HI) Thread Gage

FIG. 8 THREAD FORM OF SOLID THREAD-SETTING RING GAGES

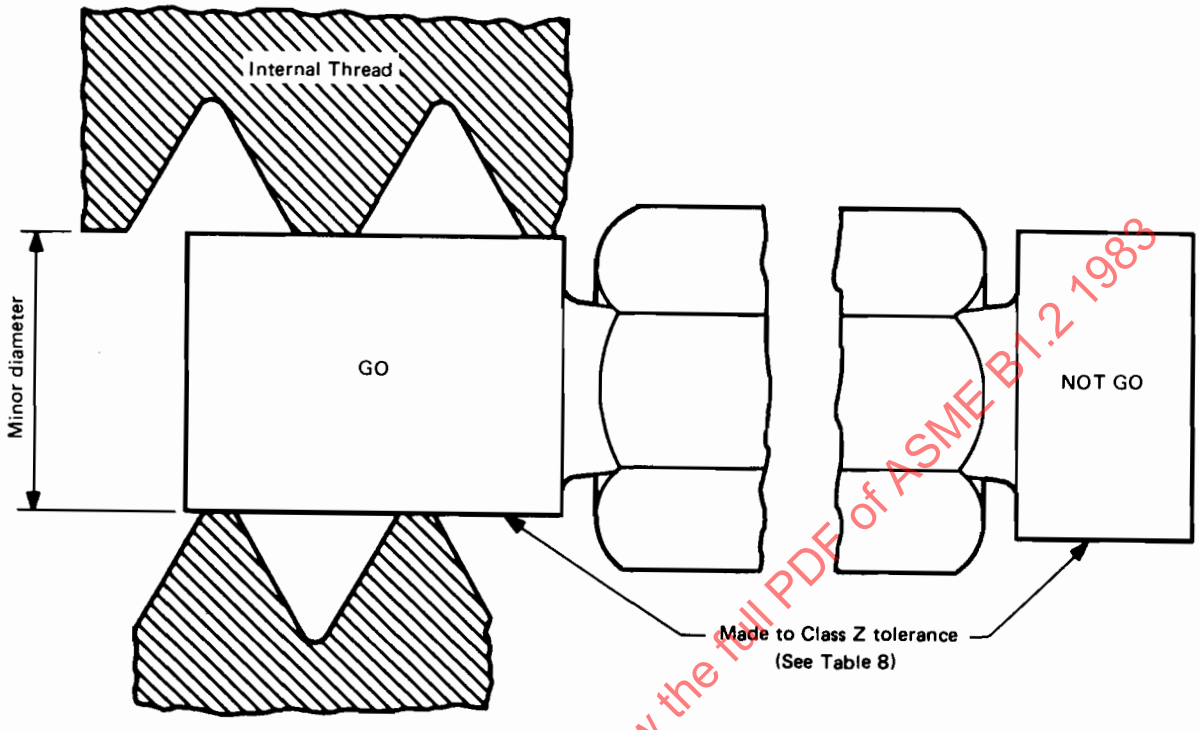


FIG. 9 MINOR DIAMETER LIMIT — CYLINDRICAL PLUG GAGES

The design of the GO and NOT GO cylindrical plain plug members has been standardized for various sizes, ranges, and pitches. See ANSI B47.1.

4.8.3 Identification. The cylindrical gage shall be marked with the nominal size, threads/in., thread series, GO or NOT GO, class on NOT GO, and minor diameter limits.

EXAMPLE:
1/4-20 (or .250-20) UNC GO.1960
1/4-20 (or .250-20) UNC-2B NOT GO.2070

4.8.4 Precision Instruments (Table 2 — Gage 13). Precision instruments such as dial calipers, inside micrometer calipers, pocket slide calipers, and vernier inside calipers can also be used to measure the minor diameter of product internal thread.

4.8.5 Snap (Table 2 — Gages 3.3 and 3.5) and Indicating Gages (Table 2 — Gages 3.3, 3.5, and 5.2): Plain Diameter Gages for Checking Minor Diameter of Internal Thread. Gages are made to the individual gage manufacturer's standard with gaging contacts (segments or rolls) at 120 deg. or 180 deg. Size range for segment type is approximately 3/16 in. to 2-1/2 in. in diameter. Above 2-1/2 in., gage contacts are plain diameter rolls. Another design is the use of prism fingers for 3/16 in. size and larger with contacts at 180 deg. See Fig. 10 for details. In each design, the gages are set with cylindrical ring gages, outside micrometers, vernier calipers, or a gap made with gage blocks and jaw accessories. Gage contacts are collapsed into tapped hole and released to contact product minor diameter. Dial indicator gages give the size of the product between minimum and maximum tolerance. Snap gages check the minor diameter limits by sensing the resistance at contact after being set to master.

4.8.6 Identification. After contacts have been assembled in the snap or indicating gage, the assembled gage should be tagged with the nominal size, threads/in., thread series, class, and minor diameter limits.

EXAMPLE:
1/4-20 (or .250-20) UNC-2B.1960 — .2070

TABLE 8 GAGE TOLERANCES FOR PLAIN CYLINDRICAL GAGES

Size Range, in.		Tolerances, in. (Note 1)				
Above	To and Including	XX	X	Y	Z (Note 2)	ZZ
1	2	3	4	5	6	7
0.020	0.825	0.00002	0.00004	0.00007	0.00010	0.00020
.825	1.510	0.00003	0.00006	0.00009	0.00012	0.00024
1.510	2.510	0.00004	0.00008	0.00012	0.00016	0.00032
2.510	4.510	0.00005	0.00010	0.00015	0.00020	0.00040
4.510	6.510	0.000065	0.00013	0.00019	0.00025	0.00050
6.510	9.010	0.00008	0.00016	0.00024	0.00032	0.00064
9.010	12.010	0.00010	0.00020	0.00030	0.00040	0.00080

NOTES:
(1) Tolerances apply to actual diameter of plug or ring. Apply tolerances in accordance with Table 4. Symbols XX, X, Y, Z, and ZZ are standard gage tolerance classes.
(2) Used as tolerance on plain cylindrical plug and ring gages to check minor diameter for internal threads and outside diameter for external threads. Also used for masters for setting indicating thread gages where design permits.

4.9 Snap (Table 2 — Gage 3.4) and Indicating (Table 2 — Gage 5.1) Gages to Check Major Diameter of Internal Thread

4.9.1 Purpose and Use. The minimum major diameter limit of the product internal thread is considered acceptable when the product thread accepts GO gages. If further gaging is required, 4.9.2 describes the types of gages used to check the maximum- and minimum-material limits of the major diameter.

4.9.2 Snap and Indicating Major Diameter Gages. Gages are made to manufacturer's standard with 55 deg. maximum gage contacts at 180 deg. in the form of relieved thread contacts. See Fig. 11, sketch (a) for segment type. Size ranges from approximately 3/16 in. to 2-1/2 in. Above 2-1/2 in., gage contacts are thread relieved rolls at 120 deg. See Fig. 11, sketch (b). Another design is the use of conical contact on one finger and two "best size" thread balls on other contact as shown in Fig. 11, sketch (c). In each design, the indicating gages are set with cylindrical ring gages, outside micrometers, vernier calipers, or gap made with gage blocks and jaw accessories. Gage contacts are collapsed into tapped hole and released to contact product major diameter. Dial indicator gages give the size of the product between minimum and maximum tolerances. Snap gage checks the major diameter limit by sensing the resistance at contact after being set to master.

4.9.3 Identification. After contacts have been assembled in the snap or indicating gage, the assembled gage should be tagged with the nominal size, threads/in., thread series major diameter limits, and MAJOR DIAMETER INTERNAL.

EXAMPLE:
1/4-20 (or .250-20) UNC
GO.250 NOT GO (Customer's Specifications)
MAJOR DIAMETER INTERNAL

4.10 Functional Indicating Thread Gages for Internal Thread (Table 2 — Gages 4.1 and 4.3)

4.10.1 Purpose and Use. The GO indicating thread gage (4.1 and 4.3) inspects the maximum-material GO functional limit and size, A_1 and A_2, and the NOT GO (HI) functional diameter limit and size, B_1 and B_2, of product internal thread. By the use of segments, rolls, or fingers, the gage is also used to check roundness of pitch cylinder. Some types of indicating gages are set by using thread-setting ring gages. See 4.7. Other types may be set with plain ring gages or with gage blocks and jaws. Readings indicate the position of product thread within the tolerance range.

4.10.2 Basic Design. Indicating gages have three contacts at 120 deg. or two contacts at 180 deg. Gages are made with segments, rolls, or fingers with the length of the functional GO gaging elements equal to the length of the standard GO thread plug gage. Internal product threads less than 3/16 in. in diameter are not practical to check with indicating gages.

4.10.3 Thread Form. The specifications for thread form on GO functional segments, rolls, or fingers are summarized in Table 4 and Fig. 12.

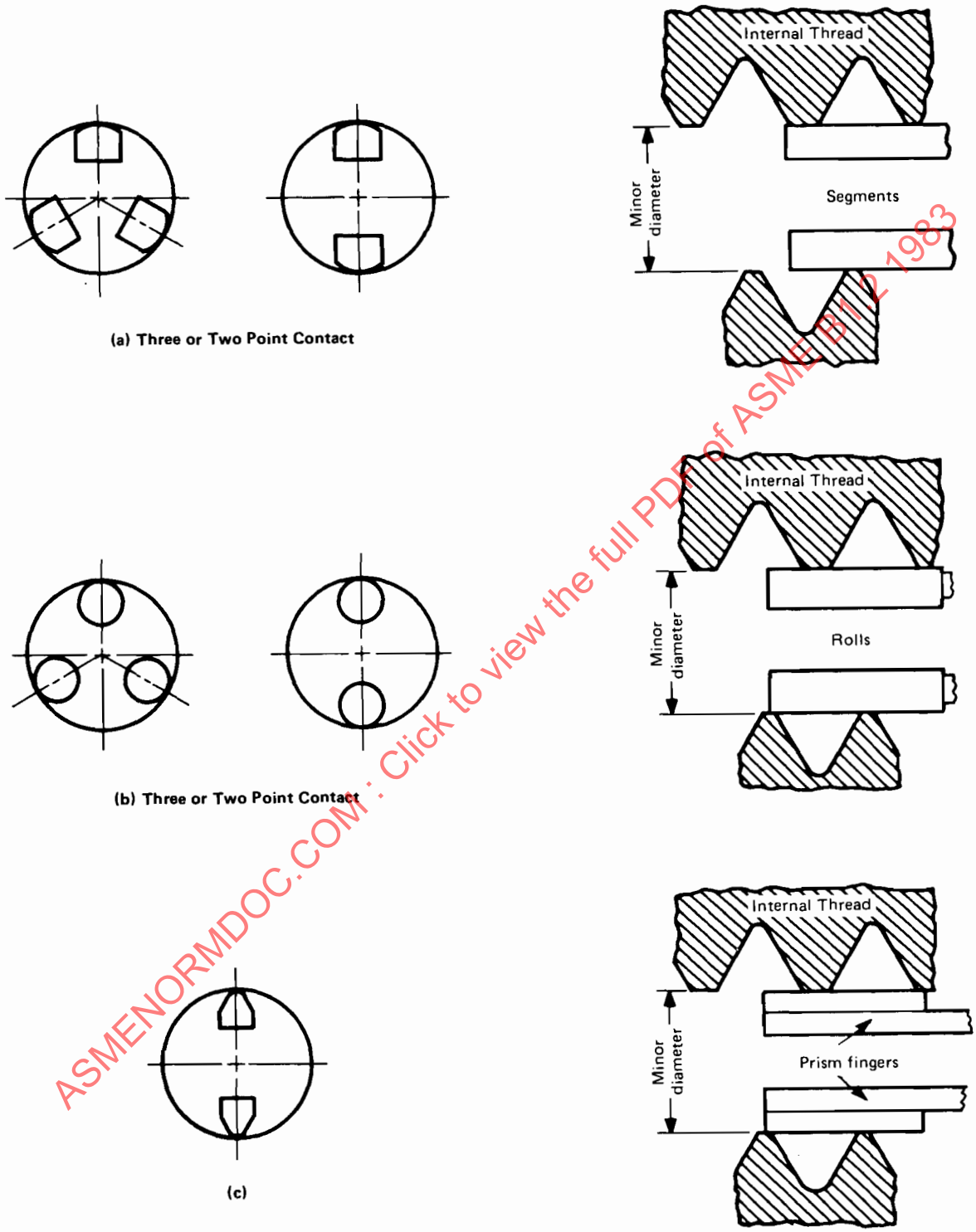


FIG. 10 INDICATING PLAIN DIAMETER GAGES — MAX.-MIN. MINOR DIAMETER LIMIT AND SIZE

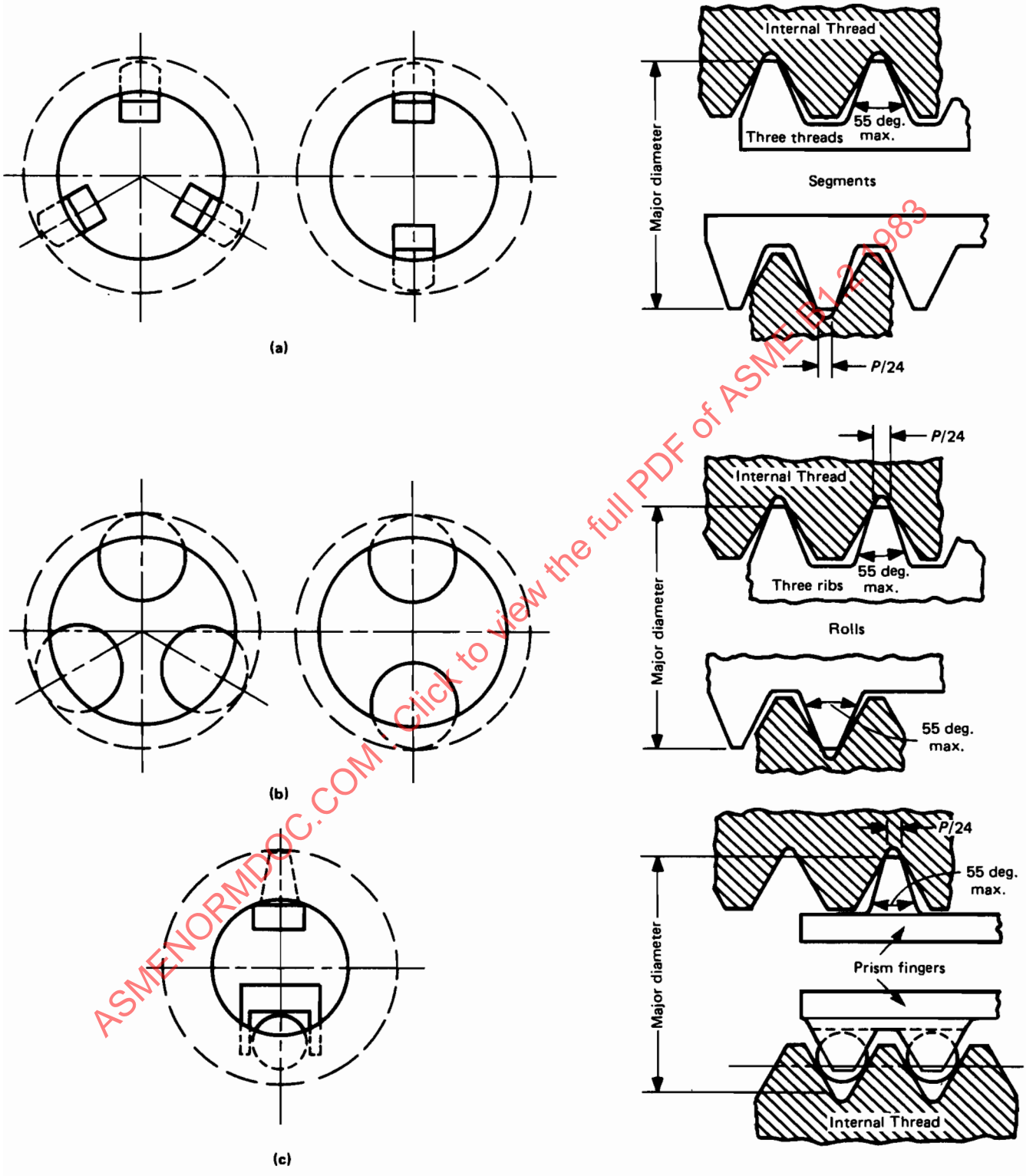


FIG. 11 SNAP AND INDICATING DIAMETER GAGES — MAX.-MIN. MAJOR DIAMETER LIMIT AND SIZE

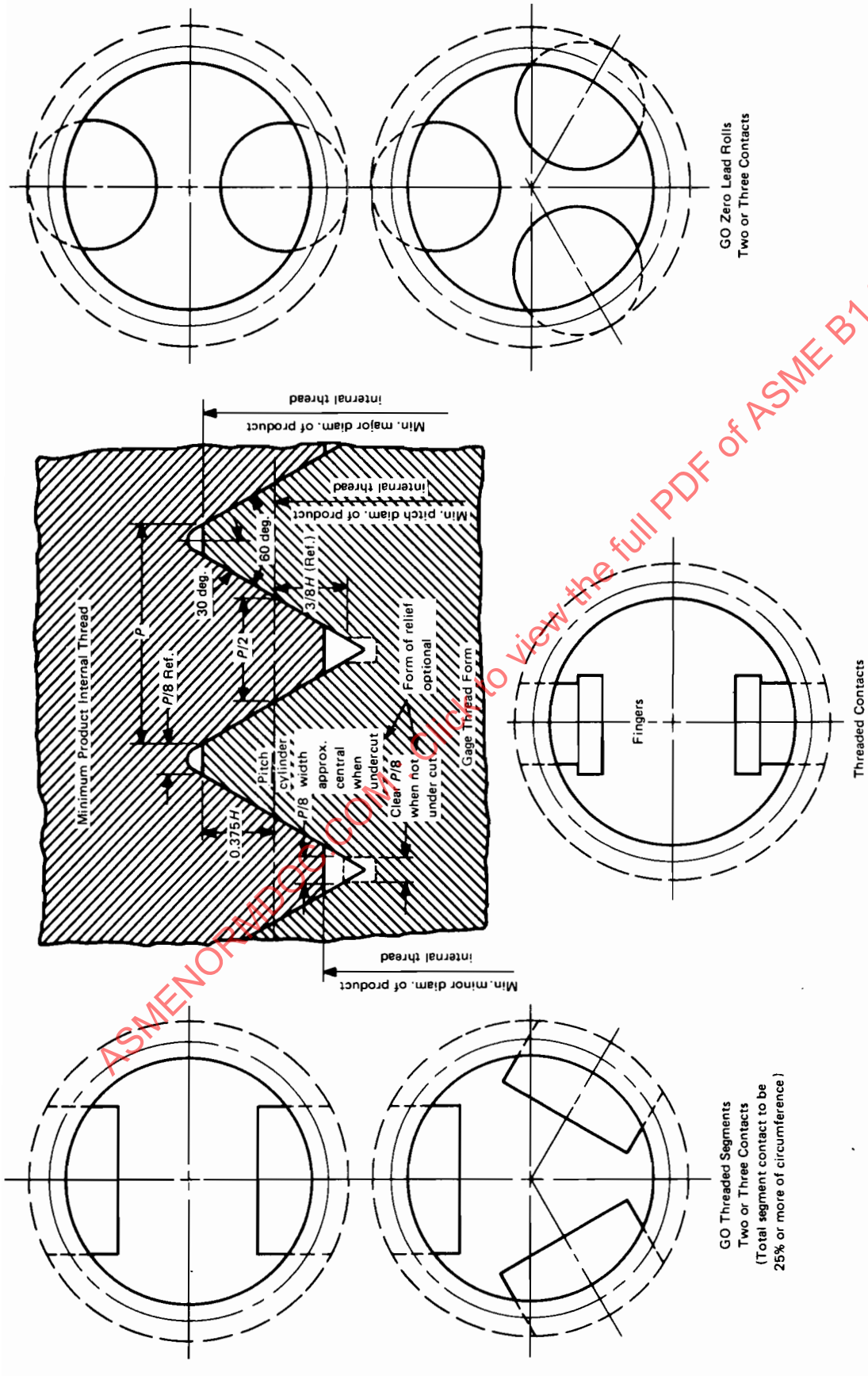


FIG. 12 INDICATING THREAD GAGES — MAXIMUM-MATERIAL GO FUNCTIONAL LIMIT AND SIZE

TABLE 9 CONSTANTS FOR COMPUTING THREAD GAGE DIMENSIONS

Threads/in., n	Pitch, p	Truncation of GO Truncated Setting Plug, $0.060\sqrt[3]{p^2} + 0.017p$	Half-Height of Cone Contact, $0.05p$	Distance Between Pitch Cylinder and Half-Height of Cone Contact, $0.087p$	Height of Gage Cone Contact, $0.11547H = 0.1p$	Width of Flat on GO Plug, $p/8 = 0.125p$	Addendum of Ring Thread and Truncation of Internal Thread, $H/4 = 0.25H = 0.216506p$	Width of Flat on GO Ring, $p/4 = 0.25p$	Dedendum of Ring Thread and Addendum of Plug Thread, $0.375H = 0.3247p$	Twice External Thread Height, $.075H = 0.649519p$ h	Half Height of Sharp V-Thread, $H/2 = 0.5H = 0.43301p$	Height of Sharp V-Thread, $H = 0.866025p$	Double Height of Internal Thread, $1.25H = 1.082532p$
1	2	3	4	5	6	7	8	9	10	11	12	13	14
80	0.012500	0.0034	0.00063	0.00109	0.00125	0.00156	0.00271	0.00312	0.00406	0.008119	0.00541	0.010825	0.01353
72	.013889	.0037	.00069	.00122	.00139	.00174	.00301	.00347	.00451	.009021	.00601	.012028	.01504
64	.015625	.0040	.00078	.00136	.00156	.00195	.00338	.00391	.00507	.010149	.00677	.013532	.01691
56	.017857	.0044	.00089	.00155	.00179	.00223	.00387	.00446	.00580	.011599	.00773	.015465	.01933
48	.020833	.0049	.00104	.00181	.00208	.00260	.00451	.00521	.00677	.013532	.00902	.018042	.02255
44	.022727	.0052	.00114	.00198	.00227	.00284	.00492	.00568	.00738	.014762	.00984	.019682	.02460
40	.025000	.0056	.00125	.00218	.00250	.00312	.00541	.00625	.00812	.016238	.01083	.021651	.02706
36	.027778	.0060	.00139	.00242	.00278	.00347	.00601	.00694	.00902	.018042	.01203	.024056	.03007
32	.031250	.0065	.00156	.00272	.00313	.00391	.00677	.00781	.01015	.020297	.01353	.027063	.03383
28	.035714	.0071	.00179	.00311	.00357	.00446	.00773	.00893	.01160	.023197	.01546	.030929	.03866
27	.037037	.0073	.00185	.00322	.00370	.00463	.00802	.00926	.01203	.024056	.01604	.032075	.04009
24	.041667	.0079	.00208	.00361	.00417	.00521	.00902	.01042	.01353	.027063	.01804	.036084	.04511
20	.050000	.0090	.00250	.00435	.00500	.00625	.01083	.01250	.01624	.032476	.02165	.043301	.05413
18	.055556	.0097	.00278	.00483	.00556	.00694	.01203	.01389	.01804	.036084	.02406	.048113	.06014
16	.062500	.0105	.00313	.00544	.00625	.00781	.01353	.01562	.02030	.040595	.02706	.054127	.06766
14	.071429	.0115	.00357	.00621	.00714	.00893	.01546	.01786	.02320	.046394	.03093	.061859	.07732
13	.076923	.0122	.00385	.00669	.00769	.00962	.01665	.01923	.02498	.049963	.03331	.066617	.08327
12	.083333	.0129	.00417	.00725	.00833	.01042	.01804	.02083	.02706	.054127	.03608	.072169	.09021
11½	.086957	.0133	.00435	.00757	.00870	.01087	.01883	.02174	.02824	.056480	.03765	.075307	.09413
11	.090909	.0137	.00451	.00791	.00909	.01136	.01968	.02273	.02952	.059047	.03936	.078730	.09841
10	.100000	.0146	.00500	.00870	.01000	.01250	.02165	.02500	.03248	.064952	.04330	.086603	.10825
9	.111111	.0158	.00556	.00967	.01111	.01389	.02406	.02778	.03608	.072169	.04811	.096225	.12028
8	.125000	.0171	.00625	.01088	.01250	.01562	.02706	.03125	.04059	.081190	.05413	.108253	.13532
7	.142857	.0188	.00714	.01243	.01429	.01786	.03093	.03571	.04639	.092788	.06186	.123718	.15465
6	.166667	.0210	.00833	.01450	.01667	.02083	.03608	.04167	.05413	.108253	.07217	.144338	.18042
5	.200000	.0239	.01000	.01740	.02000	.02500	.04330	.05000	.06495	.129904	.08660	.173205	.21651
4½	.222222	.0258	.01111	.01933	.02222	.02778	.04811	.05556	.07217	.144338	.09623	.192450	.24056
4	.250000	.0281	.01250	.02175	.02500	.03125	.05413	.06250	.08119	.162380	.10825	.216506	.27063

4.10.4 Thread Crests. The major diameter of the GO segments, rolls, or fingers are equivalent to a $P/8$ flat with a plus gage tolerance. The thread crests shall be flat in an axial plane and parallel to the axis of the segment, roll, or finger.

4.10.5 Pitch Cylinder. The pitch cylinder of the segments, rolls, or fingers shall be round and straight within the gage pitch diameter limits specified in Table 6.

4.10.6 Lead and Half-Angle Variations. Lead and half-angle variations on thread of segments, rolls, and fingers shall be within the limits specified. See Table 6.

4.10.7 Thread Roots

4.10.7.1 The minor diameter of the GO threaded segments, rolls, or fingers shall be cleared beyond a $P/8$ width of flat either by extension of the sides of the thread toward a sharp vee or by an undercut no greater than $P/8$ maximum width and approximately central.

4.10.8 Runout. The pitch and major cylinders of the threaded portion of the GO segments or rolls shall not exceed the runout as determined by measurements of runout (full-indicator movement) on each gaging member, with respect to pitch cylinder. Runout shall not exceed one-half X gage major diameter tolerance.

4.10.9 Identification. The gaging elements, segments, rolls, or fingers shall be identified by the nominal size and threads/in. When indicating gage is assembled with proper contacts, the gage should be tagged with the nominal size, threads/in., thread series, class, PD, and pitch diameter limits.

EXAMPLE:
1/4-20 (or .250-20) UNC-2B PD.2175-.2224

4.11 Minimum-Material Indicating Thread Gages for Internal Thread (Table 2 — Gages 4.5 and 4.6)

4.11.1 Purpose and Use. The indicating thread gage inspects the minimum-material limit and size (C_1 and C_2, D_1 and D_2) of product internal threads. By the use of interchangeable segments, rolls, or balls, the gage is also used to check roundness and taper of pitch cylinder. Some types of indicating gages are set by using a thread-setting ring gage. See 4.7. Readings indicate the position of product thread within the tolerance range. Other types may be set with gage blocks and jaws, plain ring gages, or measuring machine.

4.11.2 Basic Design. Indicating gages have three contacts at 120 deg. or two contacts at 180 deg. Gages are made with segments, rolls, or ball design with cone and vee configuration (pitch diameter type) or ball only (thread groove diameter type). It is impractical to attempt checking internal product threads smaller than 3/16 in. with indicating gages.

4.11.3 Thread Form. The specifications for cone and vee segments are shown in Fig. 13; the ball design and thread groove diameter type are shown in Fig. 14.

4.11.4 The major diameter of the cone and vee segments or rolls are made to manufacturer's standard. See Figs. 13 and 14.

4.11.5 Identification. The gaging elements, segments, rolls, or ball fingers should be marked with nominal size and threads/in. When gage is assembled with proper gaging contacts, the indicating gage should be tagged with the nominal size, threads/in., thread series, class, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2B PD.2224

4.12 Indicating Runout Thread Gage for Internal Thread (Table 2 — Gage 4.7)

4.12.1 Purpose and Use. This indicating gage inspects the runout of the minor diameter to the pitch diameter of the product internal thread. Readings indicate the position of product minor diameter to the pitch diameter, M_1, within the tolerance specified.

4.12.2 Basic Design. Indicating gages have three contacts, one plain and two threaded, at 120 deg.; or two contacts, one plain and one threaded, at 180 deg. See Fig. 15, sketch (a). The range of segments is 3/16 in. and larger; the range of rolls is 1-3/4 in. and larger.

The ball-type indicating gage has two balls on one contact engaging two threads, and one contact has a plain prism shaped finger 180 deg. apart from the ball contact. See Fig. 15, sketch (b): the range is 5/8 in. and larger.

The indicating gage is set by a GO setting ring gage (see Fig. 8) with plain gaging contact on minor diameter of thread ring gage and the thread contact on pitch diameter of ring thread gage.

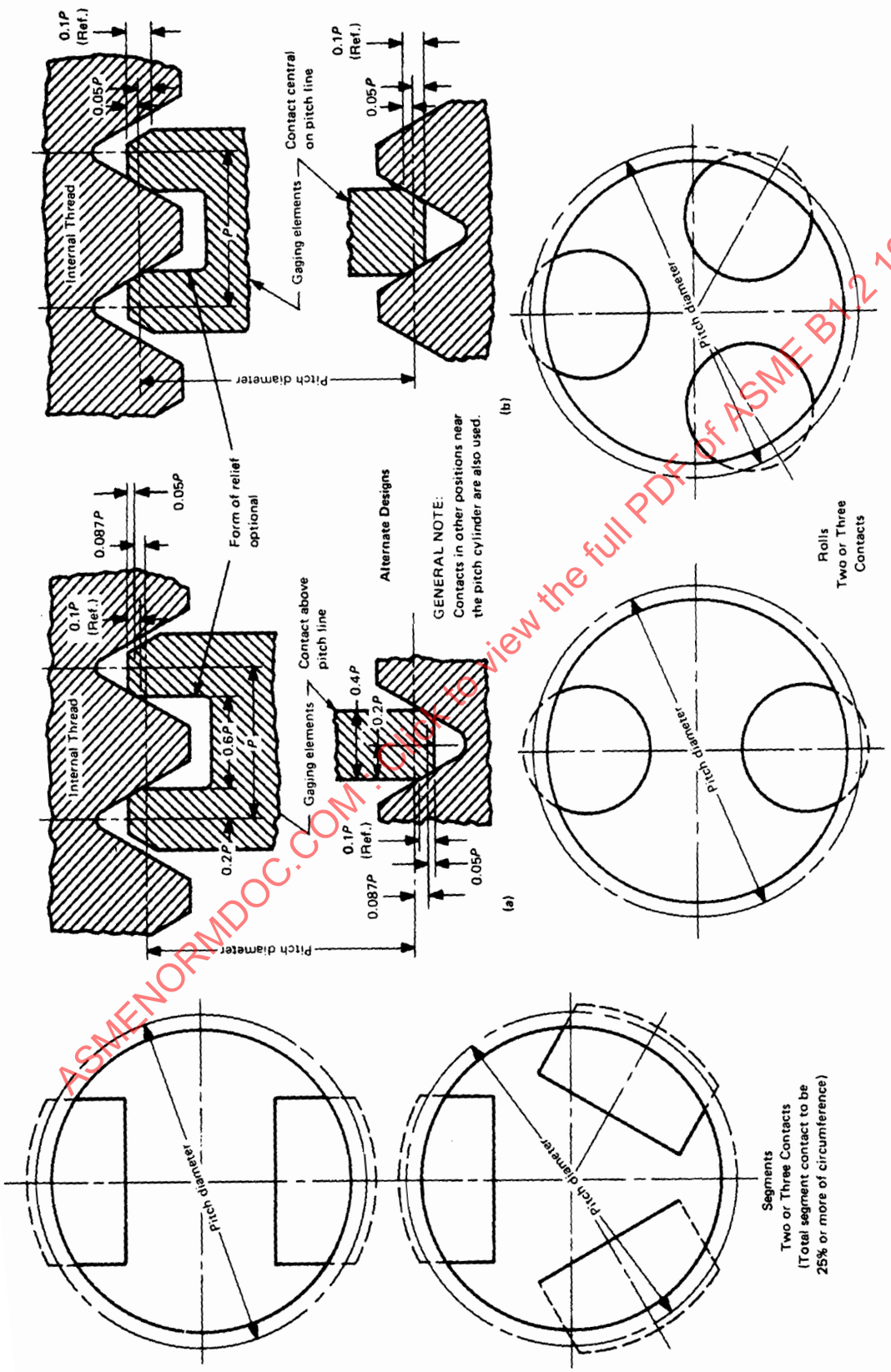


FIG. 13 INDICATING THREAD GAGES — MINIMUM-MATERIAL PITCH DIAMETER LIMIT AND SIZE — CONE AND VEE

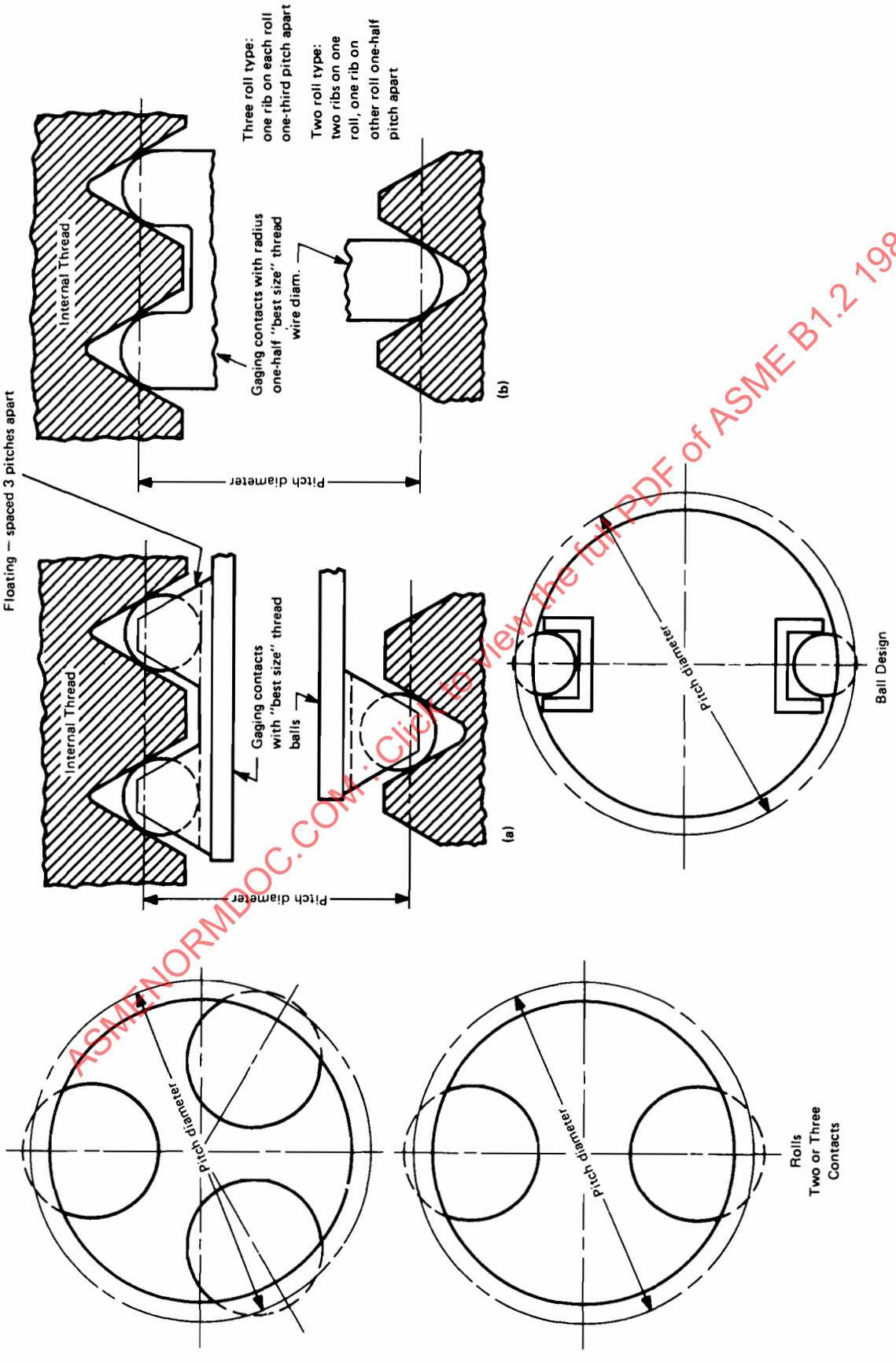


FIG. 14 INDICATING THREAD GAGES — MINIMUM-MATERIAL PITCH DIAMETER LIMIT AND SIZE — BALL AND RADIUS

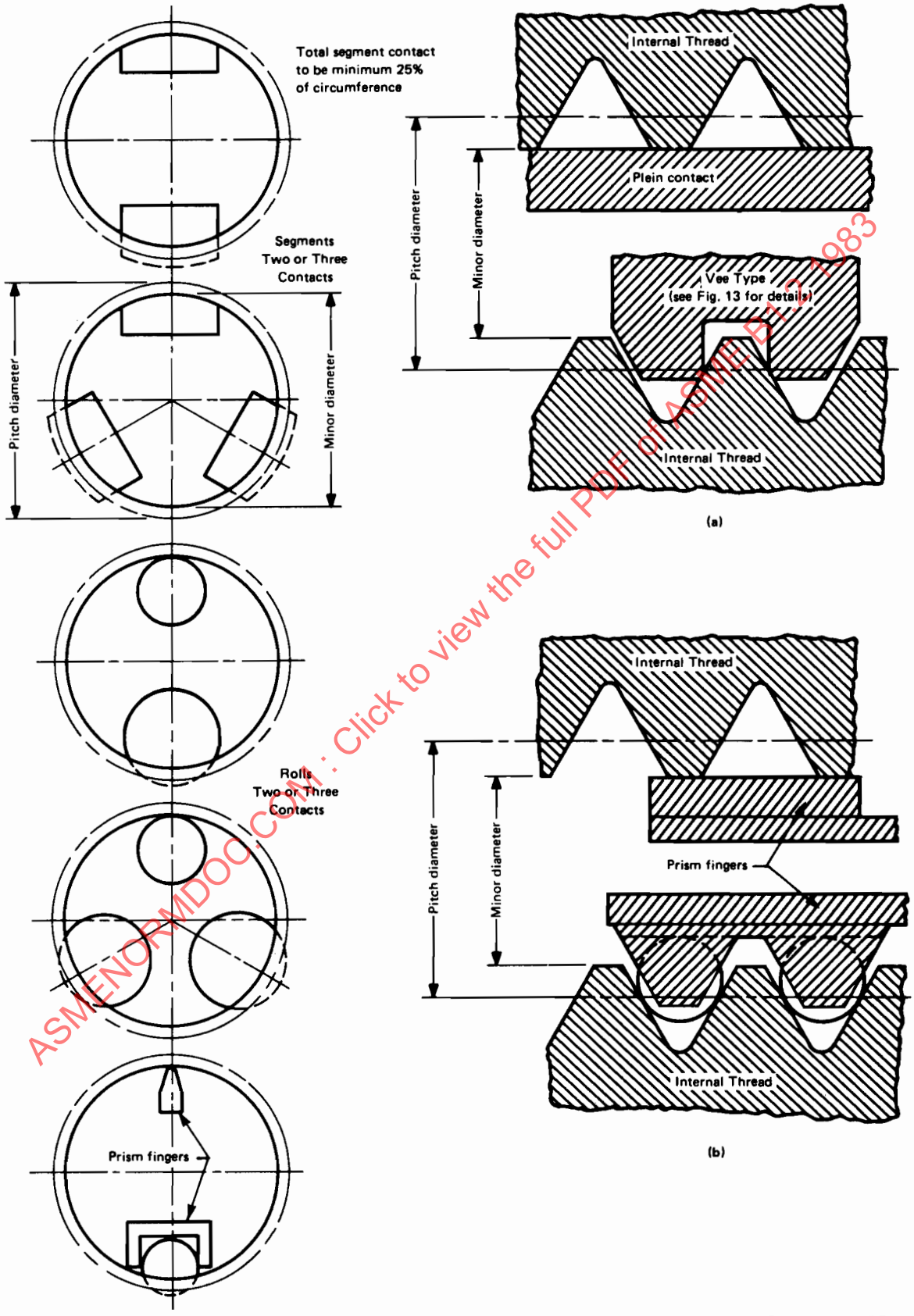


FIG. 15 INDICATING THREAD GAGES — DIAMETER RUNOUT — MINOR TO PITCH

4.12.3 Thread Form. The specifications for thread form on vee segments or rolls are summarized in Fig. 15. Plain contacts have line bearing on minor diameter of product. Balls are "best size" thread ball contacting thread at pitch line.

4.12.4 Thread Crests. The thread crests shall be flat in an axial plane and parallel to axis of segment or roll.

4.12.5 Lead and Half-Angle Variations. Lead and half-angle variations on threaded segments or rolls shall be within the limits specified. See Table 6.

4.12.6 Identification. The gaging elements, segments, rolls, or ball finger should be marked with the nominal size and threads/in. When gage is assembled with proper gaging contacts, the indicating gage should be tagged with the nominal size, threads/in., thread series, class, and RUNOUT.

EXAMPLE:
1/4-20 (or .250-20) UNC-2B RUNOUT

4.13 Differential Gaging (Table 2 — Gage 4.8)

4.13.1 The concept of differential gaging for product internal screw threads makes use of fundamental geometric theorems that relate directly to size, position, and form.

For differential gaging, two methods are used for measuring screw thread size:

(*a*) GO functional size

(*b*) pitch diameter (or thread groove diameter)

Only when a screw thread has perfect position and form [i.e., zero variation in lead (including helical path), flank angle, taper, and roundness] are these two measurements equal. Differential gaging is a variables method of in-process inspection, final conformance inspection, or both, that provides the actual numerical values for both GO functional and pitch diameter sizes. These are the two extreme sizes of any product screw thread. One of the sizes, pitch diameter, is the size of the thread pitch diameter with essentially zero variation in all other thread elements, while the other size, GO functional size, is the size of the thread with the effects of all variations in all other thread elements added to the pitch diameter. The numerical difference between these two sizes is called a *cumulative thread element variation differential* and represents the diametral effect of the total amount of thread element variations.

The inspection process that further refines the total amount of thread element variation so that the amount of variation for each individual element becomes known is called *single thread element variation differential.*

4.13.2 Cumulative Thread Element Variation Differential. Indicating gages have either three contacts at 120 deg. spacing or two contacts at 180 deg. spacing. The indicating gages with segments or rolls as shown in Figs. 12 and 16, sketch (a) give the functional size indicating reading, Z. The indicating gages with cone and vee segments or rolls with one thread pitch engagement at pitch diameter line, Fig. 13, and thread groove diameter type, Fig. 14, sketch (a) or (b), or both, shown in Fig. 16, sketches (c) and (d), give the pitch diameter size indicating reading, X. The difference in the indicator readings, X − Z, between the two types of gages gives the cumulative form differential reading which corresponds to the pitch diameter equivalent, $\Delta D_2 C_2$, for the combination of lead, helix, flank angle, roundness, and taper variations on the product thread. See Fig. 16.

4.13.3 Single Thread Element Variation Differential

4.13.3.1 Lead (Helix) Differential Reading. The indicating gage reading, Y, using the full-form thread segments or rolls with one thread pitch engagement, similar to Figs. 12 and 16, sketch (b), is compared to the reading, Z, using the functional size gage shown in Figs. 12 and 16, sketch (a). The difference between the measured values, Y − Z, is the lead differential reading which corresponds to the pitch diameter equivalent, $\Delta D_2 \lambda$, for the lead and helix variation of the product thread.

4.13.3.2 Flank Angle Differential Reading. The indicating gage reading, X, using segments or rolls with cone and vee design, Figs. 13 and 16, sketch (c), is compared to reading, Y, using the full-form thread segments or rolls, similar to Figs. 12 and 16, sketch (b). Both designs have one thread pitch engagement. The difference between the measured values, X − Y, is the flank angle differential reading which corresponds approximately to the pitch diameter equivalent, $\Delta D_2 \propto$, for the combined flank angle variation on the product thread.

4.13.3.3 Roundness and Taper Differential Readings. By the use of full-form thread segments or rolls with one thread pitch engagement, similar to Figs. 12 and 16, sketch (b); cone and vee segments or rolls, Figs. 13 and 16, sketch (c); or thread groove diameter type, Figs. 14, sketch (a) or (b), and 16, sketch (d), the roundness and taper of pitch cylinder is

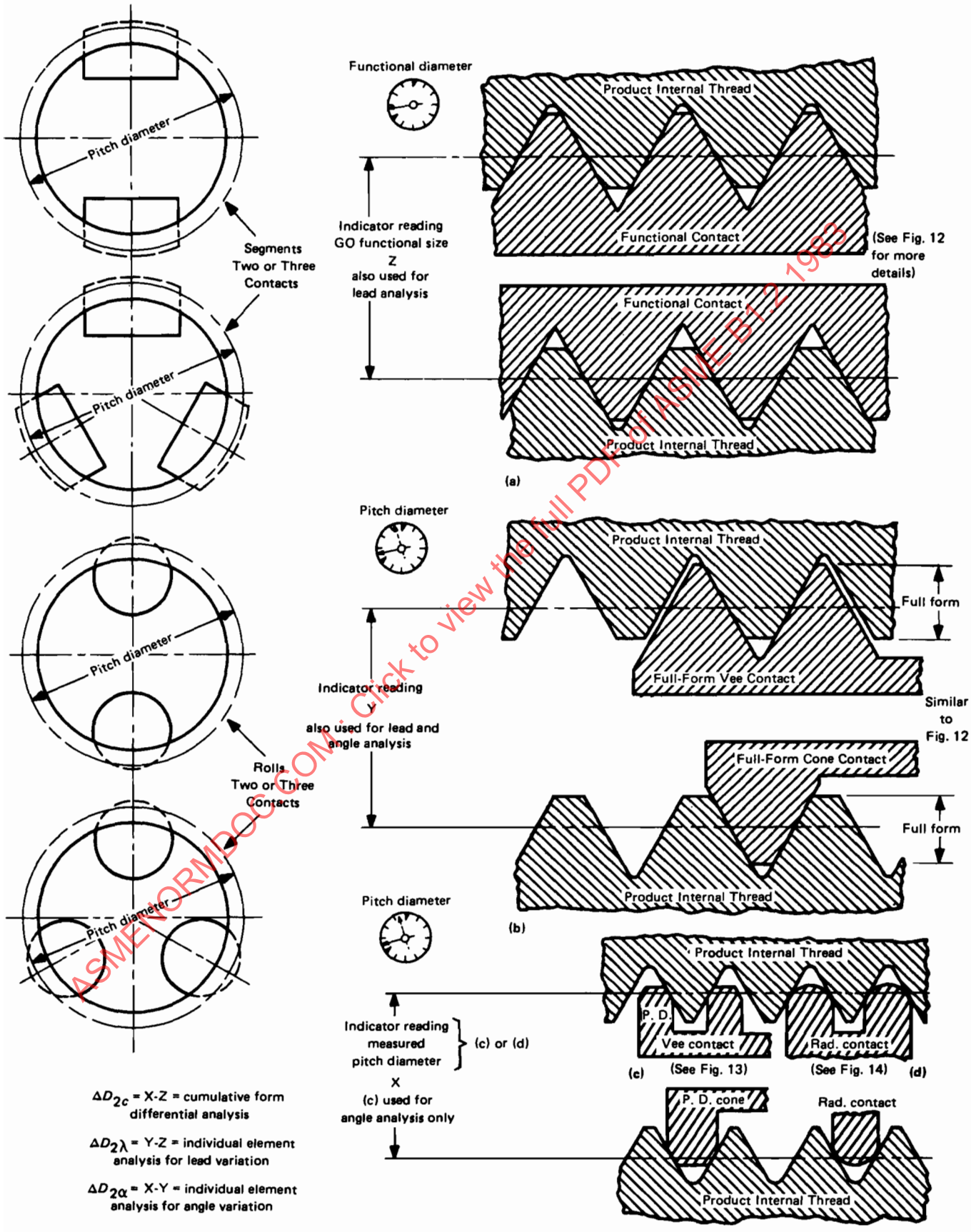


FIG. 16 INDICATING THREAD GAGES — DIFFERENTIAL GAGING

checked. Rotate the product between contacts at different axial locations on thread for maximum difference in roundness and taper readings. Two contacts spaced 180 deg. apart give even lobing out-of-round measurement. Three contacts spaced 120 deg. apart give odd lobing out-of-round measurements.

4.13.4 Thread Form. The functional segments or rolls, Fig. 16, sketch (a), are described in 4.10. The full-form one thread vee segment or roll, Figs. 12 and 16, sketch (b) upper contact, has a depth of thread equivalent to the functional type, but relieved on the outside thread flanks. The full-form cone segment or roll, Figs. 12 and 16, sketch (b) lower contact, has a $P/8$ flat on outside diameter. The cone and vee segments or rolls, Fig. 16, sketch (c), are described and shown in Fig. 13. Thread groove diameter type, Fig. 16, sketch (d), is described and shown in Fig. 14.

4.13.5 Identification. The gaging elements, segments, or rolls should be identified by nominal size and threads/in. Indicating gages, assembled with proper contacts, should be tagged with nominal size, threads/in., thread series, class, and the type of differential reading specified above.

EXAMPLE:
1/4-20 (or .250-20) UNC-2B
Flank angle differential variation

4.14 Pitch Micrometers (Table 2 — Gages 6 and 7)

4.14.1 Purpose and Use. Inside micrometers, caliper type, are direct reading measuring instruments. Cone and vee contact points are modified for a NOT GO (HI) profile or pitch diameter contact only. See Fig. 17.

4.15 Thread-Measuring Balls (Table 2 — Gage 8)

4.15.1 Purpose and Use. One indicating gage using thread-measuring balls as gaging elements inspects the pitch diameter of the internal thread. It is shown in Fig. 14, sketch (a). Special fixturing and ball probes may be required when using a three-axis coordinate measuring machine for internal measurement of pitch diameter. See Appendix B9 and B10 for more information on thread-measuring balls.

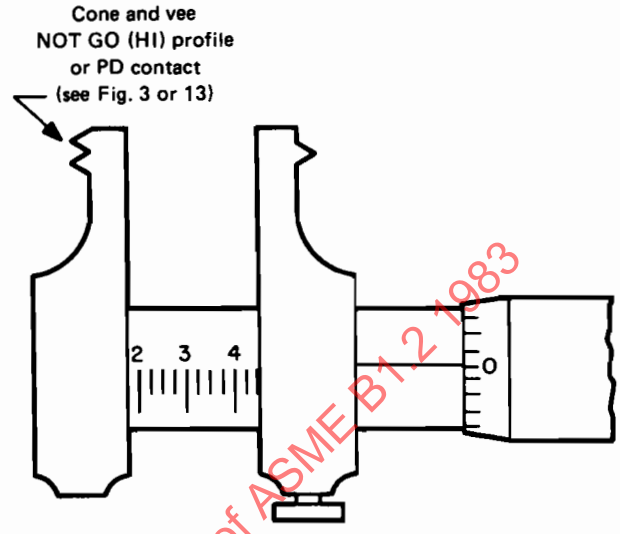


FIG. 17 INSIDE MICROMETER, CALIPER TYPE

4.16 Optical Comparator and Toolmaker's Microscope (Table 2 — Gage 9)

4.16.1 Purpose and Use. The optical comparator magnifies and projects the thread profile on a screen. Internal threads are checked using cast replicas. For best profile image, the threaded item is positioned so that the light is aligned with the thread lead angle. Since the thread profile is defined in a plane containing the axis, a correction factor must be added to the measured flank angle observed normal to the lead angle. For most standard single lead threads, the correction factor is less than 0 deg., 5 min.

Optical comparators are generally fitted with lenses providing various magnifications between 10X and 100X. Profile dimensions are checked using appropriate linear and angular scales on the machine and by application of thread profile, radius, and other overlay charts. Flank angles, thread crest and root flats, root radius, other groove and ridge dimensions, and axial plane pitch and lead may be checked. Major, minor, and pitch diameters are identified, then measured using table traverse readouts.

4.16.2 The toolmaker's microscope is similar in function to the optical comparator but does not include screen projection or overlay charts. Magnifi-

cations are generally lower than those of optical comparators. Profile reticules are used in place of charts.

4.17 Profile Tracing Instrument (Table 2 — Gage 10)

4.17.1 Purpose and Use. The instrument inspects thread contour to an accuracy of 0.0002 in. for 1 in. of horizontal and 0.100 in. of vertical travel at 100X magnification.

The tracing on the chart paper may be analyzed for elements of the thread profile, including depth, crest width, lead, angle, and radius at root of thread.

The instrument is generally able to check internal threads of 0.1875 in. and larger at magnifications from 5X to 100X.

4.18 Surface Roughness Equipment (Table 2 — Gage 14)

4.18.1 Purpose and Use. Measurement of surface roughness on screw thread flanks is usually made with an instrument which traverses a radiused stylus across the lay. The stylus displacement due to the surface irregularities is electronically amplified and the meter reading displays the arithmetical average roughness height in microinches (see ANSI B46.1, Surface Texture: Surface Roughness, Waviness, and Lay). Some instruments produce a chart of the traced path which shows the peak-to-valley heights of the surface irregularities. Special fixturing is required to position and guide stylus over thread surface.

4.19 Roundness Equipment (Table 2 — Gage 15)

4.19.1 Purpose and Use. There are two types of precision roundness measuring instruments: precision rotary tables and precision spindles. A special stylus coupled to an electric unit records the out-of-roundness on a circular chart as it traces around the internal cylindrical surface of the workpiece. The instrument provides a series of magnifications for stylus displacement, a filtering system for isolating lobing from surface irregularities, various means for centering the amplified stylus trace on the polar chart, and a selection of rotating speeds. For details on measuring and for other methods for checking roundness, see ANSI B89.3.1, Measurement of Out-of-Roundness.

4.20 Miscellaneous Gages and Gaging Equipment

4.20.1 The description of internal gages in 4.1 through 4.19 is definitely not a complete catalog of the various types available for inspection purposes. The gages not described above may be used provided they adhere to the standard thread practice noted in this Standard (i.e., truncation, form of thread, tolerance, etc.) and have producer and consumer agreement.

5 TYPES OF GAGES FOR PRODUCT EXTERNAL THREAD

5.1 GO Working Thread Ring Gages (Table 1 — Gage 1.1)

5.1.1 Purpose and Use. The GO thread ring gage inspects the maximum-material GO functional limit, A_1, of product external thread. The GO thread ring gage when properly set to its respective calibrated thread-setting plug represents the maximum-material GO functional limit of the product external thread, and its purpose is to assure interchangeable assembly of maximum-material mating parts.

Adjustable GO thread ring gages must be set to the applicable W (see Table 5, Note 2) tolerance-setting plugs. The product thread must freely enter the GO thread ring gage for the entire length of the threaded portion. The GO thread ring gage is a cumulative check of all thread elements except the major diameter.

5.1.2 Basic Design. The maximum-material limit or GO thread ring gage is made to the prescribed maximum-material limit of the product thread, and the gaging length is equal to the thickness of the thread ring gage.

5.1.3 Gage Blanks. For practical and economic reasons, the designs and thicknesses of thread ring gages have been standardized for various size ranges and pitches (see ANSI B47.1 or Table A4).

5.1.4 Thread Form. The specifications for thread form are summarized in Table 4 and Fig. 18.

5.1.5 Thread Crests. The minor diameter of the GO thread ring gage shall be equal to the maximum pitch diameter of the product external thread minus $H/2$ with a minus gage tolerance. This corresponds to a width of flat of $P/4$. The thread crests shall be flat in an axial section and parallel to the axis.

(Section 5 continues on p. 127.)

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
0-80 or 0.060-80	UNF	2A	0.0514	0.0460	0.0496	0.0469	0.0595	0.0563	0.0600	0.0519	0.0596	0.0542	0.0465	0.0514	2B
			.0512	.0457	.0498	.0472	.0594	.0564	.0603	.0521	.0593	.0540	.0466	.0513	
		3A	.0519	.0465	.0506	.0479	.0600	.0568	.0600	.0519	.0590	.0536	.0465	.0514	3B
			.0517	.0462	.0508	.0482	.0599	.0569	.0603	.0521	.0587	.0534	.0466	.0513	
1-64 or 0.073-64	UNC	2A	.0623	.0555	.0603	.0569	.0724	.0686	.0730	.0629	.0723	.0655	.0561	.0623	2B
			.0621	.0551	.0605	.0573	.0723	.0687	.0734	.0631	.0719	.0653	.0562	.0622	
		3A	.0629	.0561	.0614	.0580	.0730	.0692	.0730	.0629	.0716	.0648	.0561	.0623	3B
			.0627	.0557	.0616	.0584	.0729	.0693	.0734	.0631	.0712	.0646	.0562	.0622	
1-72 or 0.073-72	UNF	2A	.0634	.0574	.0615	.0585	.0724	.0689	.0730	.0640	.0725	.0665	.0580	.0635	2B
			.0632	.0571	.0617	.0588	.0723	.0690	.0733	.0642	.0722	.0663	.0581	.0634	
		3A	.0640	.0580	.0626	.0596	.0730	.0695	.0730	.0640	.0719	.0659	.0580	.0635	3B
			.0638	.0577	.0628	.0599	.0729	.0696	.0733	.0642	.0716	.0657	.0581	.0634	
2-56 or 0.086-56	UNC	2A	.0738	.0661	.0717	.0678	.0854	.0813	.0860	.0744	.0849	.0772	.0667	.0737	2B
			.0736	.0657	.0719	.0682	.0853	.0814	.0864	.0746	.0845	.0770	.0668	.0736	
		3A	.0744	.0667	.0728	.0689	.0860	.0819	.0860	.0744	.0842	.0765	.0667	.0737	3B
			.0742	.0663	.0730	.0693	.0859	.0820	.0864	.0746	.0838	.0763	.0668	.0736	
2-64 or 0.086-64	UNF	2A	.0753	.0685	.0733	.0699	.0854	.0816	.0860	.0759	.0854	.0786	.0691	.0753	2B
			.0751	.0681	.0735	.0703	.0853	.0817	.0864	.0761	.0850	.0784	.0692	.0752	
		3A	.0759	.0691	.0744	.0710	.0860	.0822	.0860	.0759	.0847	.0779	.0691	.0753	3B
			.0757	.0687	.0746	.0714	.0859	.0823	.0864	.0761	.0843	.0777	.0692	.0752	
3-48 or 0.099-48	UNC	2A	.0848	.0758	.0825	.0780	.0983	.0938	.0990	.0855	.0975	.0885	.0764	.0845	2B
			.0846	.0754	.0827	.0784	.0982	.0939	.0994	.0857	.0971	.0883	.0765	.0844	
		3A	.0855	.0765	.0838	.0793	.0990	.0945	.0990	.0855	.0967	.0877	.0764	.0845	3B
			.0853	.0761	.0840	.0797	.0989	.0946	.0994	.0857	.0963	.0875	.0765	.0844	
3-56 or 0.099-56	UNF	2A	.0867	.0790	.0845	.0806	.0983	.0942	.0990	.0874	.0979	.0902	.0797	.0865	2B
			.0865	.0786	.0847	.0810	.0982	.0943	.0994	.0876	.0975	.0900	.0798	.0864	
		3A	.0874	.0797	.0858	.0819	.0990	.0949	.0990	.0874	.0972	.0895	.0797	.0865	3B
			.0872	.0793	.0860	.0823	.0989	.0950	.0994	.0876	.0968	.0893	.0798	.0864	
4-40 or 0.112-40	UNC	2A	.0950	.0842	.0925	.0871	.1112	.1061	.1120	.0958	.1099	.0991	.0849	.0939	2B
			.0948	.0838	.0927	.0875	.1111	.1062	.1124	.0960	.1095	.0989	.0850	.0938	
		3A	.0958	.0850	.0939	.0885	.1120	.1069	.1120	.0958	.1090	.0982	.0849	.0939	3B
			.0956	.0846	.0941	.0889	.1119	.1070	.1124	.0960	.1086	.0980	.0850	.0938	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4-48 or 0.112-48	UNF	2A	0.0978	0.0888	0.0954	0.0909	0.1113	0.1068	0.1120	0.0985	0.1106	0.1016	0.0894	0.0968	2B
			.0976	.0884	.0956	.0913	.1112	.1069	.1124	.0987	.1102	.1014	.0895	.0967	
		3A	.0985	.0895	.0967	.0922	.1120	.1075	.1120	.0985	.1098	.1008	.0894	.0968	3B
			.0983	.0891	.0969	.0926	.1119	.1076	.1124	.0987	.1094	.1006	.0895	.0967	
5-40 or 0.125-40	UNC	2A	.1080	.0972	.1054	.1000	.1242	.1191	.1250	.1088	.1229	.1121	.0979	.1062	2B
			.1078	.0968	.1056	.1004	.1241	.1192	.1254	.1090	.1225	.1119	.0980	.1061	
		3A	.1088	.0980	.1069	.1015	.1250	.1199	.1250	.1088	.1221	.1113	.0979	.1062	3B
			.1086	.0976	.1071	.1019	.1249	.1200	.1254	.1090	.1217	.1111	.0980	.1061	
5-44 or 0.125-44	UNF	2A	.1095	.0997	.1070	.1021	.1243	.1195	.1250	.1102	.1232	.1134	.1004	.1079	2B
			.1093	.0993	.1072	.1025	.1242	.1196	.1254	.1104	.1228	.1132	.1005	.1078	
		3A	.1102	.1004	.1083	.1034	.1250	.1202	.1250	.1102	.1224	.1126	.1004	.1079	3B
			.1100	.1000	.1085	.1038	.1249	.1203	.1254	.1104	.1220	.1124	.1005	.1078	
6-32 or 0.138-32	UNC	2A	.1169	.1034	.1141	.1073	.1372	.1312	.1380	.1177	.1349	.1214	.1040	.1140	2B
			.1166	.1029	.1144	.1078	.1371	.1313	.1385	.1180	.1344	.1211	.1041	.1139	
		3A	.1177	.1042	.1156	.1088	.1380	.1320	.1380	.1177	.1339	.1204	.1040	.1140	3B
			.1174	.1037	.1159	.1093	.1379	.1321	.1385	.1180	.1334	.1201	.1041	.1139	
6-40 or 0.138-40	UNF	2A	.1210	.1102	.1184	.1130	.1372	.1321	.1380	.1218	.1360	.1252	.1110	.1190	2B
			.1208	.1098	.1186	.1134	.1371	.1322	.1384	.1220	.1356	.1250	.1111	.1189	
		3A	.1218	.1110	.1198	.1144	.1380	.1329	.1380	.1218	.1351	.1243	.1110	.1186	3B
			.1216	.1106	.1200	.1148	.1379	.1330	.1384	.1220	.1347	.1241	.1111	.1185	
8-32 or 0.164-32	UNC	2A	.1428	.1293	1399	.1331	.1631	.1571	.1640	.1437	.1610	.1475	.1300	.1390	2B
			.1425	.1288	.1402	.1336	.1630	.1572	.1645	.1440	.1605	.1472	.1301	.1389	
		3A	.1437	.1302	.1415	.1347	.1640	.1580	.1640	.1437	.1600	.1465	.1300	.1389	3B
			.1434	.1297	.1418	.1352	.1639	.1581	.1645	.1440	.1595	.1462	.1301	.1388	
8-36 or 0.164-36	UNF	2A	.1452	.1332	.1424	.1364	.1632	.1577	.1640	.1460	.1616	.1496	.1340	.1420	2B
			.1450	.1328	.1426	.1368	.1631	.1578	.1644	.1462	.1612	.1494	.1341	.1419	
		3A	.1460	.1340	.1439	.1379	.1640	.1585	.1640	.1460	.1607	.1487	.1340	.1416	3B
			.1458	.1336	.1441	.1383	.1639	.1586	.1644	.1462	.1603	.1485	.1341	.1415	
10-24 or 0.190-24	UNC	2A	.1619	.1439	.1586	.1496	.1890	.1818	.1900	.1629	.1852	.1672	.1450	.1560	2B
			.1616	.1434	.1589	.1501	.1889	.1819	.1905	.1632	.1847	.1669	.1451	.1559	
		3A	.1629	.1449	.1604	.1514	.1900	.1828	.1900	.1629	.1841	.1661	.1450	.1555	3B
			.1626	.1444	.1607	.1519	.1899	.1829	.1905	.1632	.1836	.1658	.1451	.1554	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
10-32 or 0.190-32	UNF	2A	0.1688	0.1553	0.1658	0.1590	0.1891	0.1831	0.1900	0.1697	0.1871	0.1736	0.1560	0.1640	2B
			.1685	.1548	.1661	.1595	.1890	.1832	.1905	.1700	.1866	.1733	.1561	.1639	
		3A	.1697	.1562	.1674	.1606	.1900	.1840	.1900	.1697	.1861	.1726	.1560	.1641	3B
			.1694	.1557	.1677	.1611	.1899	.1841	.1905	.1700	.1856	.1723	.1561	.1640	
12-24 or 0.216-24	UNC	2A	.1879	.1699	.1845	.1755	.2150	.2078	.2160	.1889	.2113	.1933	.1710	.1810	2B
			.1876	.1694	.1848	.1760	.2149	.2079	.2165	.1892	.2108	.1930	.1711	.1809	
		3A	.1889	.1709	.1863	.1773	.2160	.2088	.2160	.1889	.2102	.1922	.1710	.1807	3B
			.1886	.1704	.1866	.1778	.2159	.2089	.2165	.1892	.2097	.1919	.1711	.1806	
12-28 or 0.216-28	UNF	2A	.1918	.1763	.1886	.1809	.2150	.2085	.2160	.1928	.2125	.1970	.1770	.1860	2B
			.1915	.1758	.1889	.1814	.2149	.2086	.2165	.1931	.2120	.1967	.1771	.1859	
		3A	.1928	.1773	.1904	.1827	.2160	.2095	.2160	.1928	.2114	.1959	.1770	.1857	3B
			.1925	.1768	.1907	.1832	.2159	.2096	.2165	.1931	.2109	.1956	.1771	.1856	
12-32 or 0.216-32	UNEF	2A	.1948	.1813	.1917	.1849	.2151	.2091	.2160	.1957	.2133	.1998	.1820	.1900	2B
			.1945	.1808	.1920	.1854	.2150	.2092	.2165	.1960	.2128	.1995	.1821	.1899	
		3A	.1957	.1822	.1933	.1865	.2160	.2100	.2160	.1957	.2123	.1988	.1820	.1895	3B
			.1954	.1817	.1936	.1870	.2159	.2101	.2165	.1960	.2118	.1985	.1821	.1894	
¼-20 or 0.250-20	UNC	1A	.2164	.1947	.2108	.2000	.2489	.2367	.2500	.2175	.2465	.2248	.1960	.2070	1B
			.2161	.1942	.2111	.2005	.2488	.2368	.2505	.2178	.2460	.2245	.1961	.2069	
		2A	.2164	.1947	.2127	.2019	.2489	.2408	.2500	.2175	.2441	.2224	.1960	.2070	2B
			.2161	.1942	.2130	.2024	.2488	.2409	.2505	.2178	.2436	.2221	.1961	.2069	
		3A	.2175	.1958	.2147	.2039	.2500	.2419	.2500	.2175	.2428	.2211	.1960	.2067	3B
			.2172	.1953	.2150	.2044	.2499	.2420	.2505	.2178	.2423	.2208	.1961	.2066	
¼-28 or 0.250-28	UNF	1A	.2258	.2103	.2208	.2131	.2490	.2392	.2500	.2268	.2488	.2333	.2110	.2200	1B
			.2255	.2098	.2211	.2136	.2489	.2393	.2505	.2271	.2483	.2330	.2111	.2199	
		2A	.2258	.2103	.2225	.2148	.2490	.2425	.2500	.2268	.2466	.2311	.2110	.2200	2B
			.2255	.2098	.2228	.2153	.2489	.2426	.2505	.2271	.2461	.2308	.2111	.2199	
		3A	.2268	.2113	.2243	.2166	.2500	.2435	.2500	.2268	.2455	.2300	.2110	.2190	3B
			.2265	.2108	.2246	.2171	.2499	.2436	.2505	.2271	.2450	.2297	.2111	.2189	
¼-32 or 0.250-32	UNEF	2A	.2287	.2152	.2255	.2187	.2490	.2430	.2500	.2297	.2474	.2339	.2160	.2240	2B
			.2284	.2147	.2258	.2192	.2489	.2431	.2505	.2300	.2469	.2336	.2161	.2239	
		3A	.2297	.2162	.2273	.2205	.2500	.2440	.2500	.2297	.2463	.2328	.2160	.2229	3B
			.2294	.2157	.2276	.2210	.2499	.2441	.2505	.2300	.2458	.2325	.2161	.2228	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5/16-18 or 0.3125-18	UNC	1A	0.2752	0.2511	0.2691	0.2571	0.3113	0.2982	0.3125	0.2764	0.3084	0.2843	0.2520	0.2650	1B
			.2749	.2506	.2694	.2576	.3112	.2983	.3130	.2767	.3079	.2840	.2521	.2649	
		2A	.2752	.2511	.2712	.2592	.3113	.3026	.3125	.2764	.3058	.2817	.2520	.2650	2B
			.2749	.2506	.2715	.2597	.3112	.3027	.3130	.2767	.3053	.2814	.2521	.2649	
		3A	.2764	.2523	.2734	.2614	.3125	.3038	.3125	.2764	.3044	.2803	.2520	.2630	3B
			.2761	.2518	.2737	.2619	.2124	.3039	.3130	.2767	.3039	.2800	.2521	.2629	
5/16-20 or 0.3125-20	UN	2A	.2788	.2571	.2748	.2640	.3113	.3032	.3125	.2800	.3069	.2852	.2580	.2700	2B
			.2785	.2566	.2751	.2645	.3112	.3033	.3130	.2803	.3064	.2849	.2581	.2699	
		3A	.2800	.2583	.2770	.2662	.3125	.3044	.3125	.2800	.3056	.2839	.2580	.2680	3B
			.2797	.2578	.2773	.2667	.3124	.3045	.3130	.2803	.3051	.2836	.2581	.2679	
5/16-24 or 0.3125-24	UNF	1A	.2843	.2663	.2788	.2698	.3114	.3006	.3125	.2854	.3105	.2925	.2670	.2770	1B
			.2840	.2658	.2791	.2703	.3113	.3007	.3130	.2857	.3100	.2922	.2671	.2769	
		2A	.2843	.2663	.2806	.2716	.3114	.3042	.3125	.2854	.3082	.2902	.2670	.2770	2B
			.2840	.2658	.2809	.2721	.3113	.3043	.3130	.2857	.3077	.2899	.2671	.2769	
		3A	.2854	.2674	.2827	.2737	.3125	.3053	.3125	.2854	.3070	.2890	.2670	.2754	3B
			.2851	.2669	.2830	.2742	.3124	.3054	.3130	.2857	.3065	.2887	.2671	.2753	
5/16-28 or 0.3125-28	UN	2A	.2883	.2728	.2849	.2772	.3115	.3050	.3125	.2893	.3092	.2937	.2740	.2820	2B
			.2880	.2723	.2852	.2777	.3114	.3051	.3130	.2896	.3087	.2934	.2741	.2819	
		3A	.2893	.2738	.2867	.2790	.3125	.3060	.3125	.2893	.3081	.2926	.2740	.2807	3B
			.2890	.2733	.2870	.2795	.3124	.3061	.3130	.2896	.3076	.2923	.2741	.2806	
5/16-32 or 0.3125-32	UNEF	2A	.2912	.2777	.2880	.2812	.3115	.3055	.3125	.2922	.3099	.2964	.2790	.2860	2B
			.2909	.2772	.2883	.2817	.3114	.3056	.3130	.2925	.3094	.2961	.2791	.2859	
		3A	.2922	.2787	.2898	.2830	.3125	.3065	.3125	.2922	.3088	.2953	.2790	.2847	3B
			.2919	.2782	.2901	.2835	.3124	.3066	.3130	.2925	.3083	.2950	.2791	.2846	
3/8-16 or 0.375-16	UNC	1A	.3331	.3060	.3266	.3131	.3737	.3595	.3750	.3344	.3700	.3429	.3070	.3210	1B
			.3328	.3054	.3269	.3137	.3736	.3596	.3756	.3347	.3694	.3426	.3071	.3209	
		2A	.3331	.3060	.3287	.3152	.3737	.3643	.3750	.3344	.3672	.3401	.3070	.3210	2B
			.3328	.3054	.3290	.3158	.3736	.3644	.3756	.3347	.3666	.3398	.3071	.3209	
		3A	.3344	.3073	.3311	.3176	.3750	.3656	.3750	.3344	.3658	.3387	.3070	.3182	3B
			.3341	.3067	.3314	.3182	.3749	.3657	.3756	.3347	.3652	.3384	.3071	.3181	
3/8-20 or 0.375-20	UN	2A	.3413	.3196	.3372	.3264	.3738	.3657	.3750	.3425	.3696	.3479	.3210	.3320	2B
			.3410	.3191	.3375	.3269	.3737	.3658	.3755	.3428	.3691	.3476	.3211	.3319	
		3A	.3425	.3208	.3394	.3286	.3750	.3669	.3750	.3425	.3682	.3465	.3210	.3297	3B
			.3422	.3203	.3397	.3291	.3749	.3670	.3755	.3428	.3677	.3462	.3211	.3296	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3/8-24 or 0.375-24	UNF	1A	0.3468	0.3288	0.3411	0.3321	0.3739	0.3631	0.3750	0.3479	0.3733	0.3553	0.3300	0.3400	1B
			.3465	.3283	.3414	.3326	.3738	.3632	.3755	.3482	.3728	.3550	.3301	.3399	
		2A	.3468	.3288	.3430	.3340	.3739	.3667	.3750	.3479	.3708	.3528	.3300	.3400	2B
			.3465	.3283	.3433	.3345	.3738	.3668	.3755	.3482	.3703	.3525	.3301	.3399	
		3A	.3479	.3299	.3450	.3360	.3750	.3678	.3750	.3479	.3696	.3516	.3300	.3372	3B
			.3476	.3294	.3453	.3365	.3749	.3679	.3755	.3482	.3691	.3513	.3301	.3371	
3/8-28 or 0.375-28	UN	2A	.3507	.3352	.3471	.3394	.3739	.3674	.3750	.3518	.3719	.3564	.3360	.3450	2B
			.3504	.3347	.3474	.3399	.3738	.3675	.3755	.3521	.3714	.3561	.3361	.3449	
		3A	.3518	.3363	.3491	.3414	.3750	.3685	.3750	.3518	.3708	.3553	.3360	.3426	3B
			.3515	.3358	.3494	.3419	.3749	.3686	.3755	.3521	.3703	.3550	.3361	.3425	
3/8-32 or 0.375-32	UNEF	2A	.3537	.3402	.3503	.3435	.3740	.3680	.3750	.3547	.3726	.3591	.3410	.3490	2B
			.3534	.3397	.3506	.3440	.3739	.3681	.3755	.3550	.3721	.3588	.3411	.3489	
		3A	.3547	.3412	.3522	.3454	.3750	.3690	.3750	.3547	.3715	.3580	.3410	.3469	3B
			.3544	.3407	.3525	.3459	.3749	.3691	.3755	.3550	.3710	.3577	.3411	.3468	
7/16-14 or 0.4375-14	UNC	1A	.3897	.3588	.3826	.3671	.4361	.4206	.4375	.3911	.4312	.4003	.3600	.3760	1B
			.3894	.3582	.3829	.3677	.4360	.4207	.4381	.3914	.4306	.4000	.3601	.3759	
		2A	.3897	.3588	.3850	.3695	.4361	.4258	.4375	.3911	.4281	.3972	.3600	.3760	2B
			.3894	.3582	.3853	.3701	.4360	.4259	.4381	.3914	.4275	.3969	.3601	.3759	
		3A	.3911	.3602	.3876	.3721	.4375	.4272	.4375	.3911	.4266	.3957	.3600	.3717	3B
			.3908	.3596	.3879	.3727	.4374	.4273	.4381	.3914	.4260	.3954	.3601	.3716	
7/16-16 or 0.4375-16	UN	2A	.3955	.3684	.3909	.3774	.4361	.4267	.4375	.3969	.4299	.4028	.3700	.3840	2B
			.3952	.3678	.3912	.3780	.4360	.4268	.4381	.3972	.4293	.4025	.3701	.3839	
		3A	.3969	.3698	.3935	.3800	.4375	.4281	.4375	.3969	.4285	.4014	.3700	.3800	3B
			.3966	.3692	.3938	.3806	.4374	.4282	.4381	.3972	.4279	.4011	.3701	.3799	
7/16-20 or 0.4375-20	UNF	1A	.4037	.3820	.3974	.3866	.4362	.4240	.4375	.4050	.4348	.4131	.3830	.3950	1B
			.4034	.3815	.3977	.3871	.4361	.4241	.4380	.4053	.4343	.4128	.3831	.3949	
		2A	.4037	.3820	.3995	.3887	.4362	.4281	.4375	.4050	.4321	.4104	.3830	.3950	2B
			.4034	.3815	.3998	.3892	.4361	.4282	.4380	.4053	.4316	.4101	.3831	.3949	
		3A	.4050	.3833	.4019	.3911	.4375	.4294	.4375	.4050	.4308	.4091	.3830	.3916	3B
			.4047	.3828	.4022	.3916	.4374	.4295	.4380	.4053	.4303	.4088	.3831	.3915	
7/16-28 or 0.4375-28	UNEF	2A	.4132	.3977	.4096	.4019	.4364	.4299	.4375	.4143	.4344	.4189	.3990	.4070	2B
			.4129	.3972	.4099	.4024	.4363	.4300	.4380	.4146	.4339	.4186	.3991	.4069	
		3A	.4143	.3988	.4116	.4039	.4375	.4310	.4375	.4143	.4333	.4178	.3990	.4051	3B
			.4140	.3983	.4119	.4044	.4374	.4311	.4380	.4146	.4328	.4175	.3991	.4050	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
7/16-32 or 0.4375-32	UN	2A	0.4162	0.4027	0.4128	0.4060	0.4365	0.4305	0.4375	0.4172	0.4351	0.4216	0.4040	0.4110	2B
			.4159	.4022	.4131	.4065	.4364	.4306	.4380	.4175	.4346	.4213	.4041	.4109	
		3A	.4172	.4037	.4147	.4079	.4375	.4315	.4375	.4172	.4340	.4205	.4040	.4094	3B
			.4169	.4032	.4150	.4084	.4374	.4316	.4380	.4175	.4335	.4202	.4041	.4093	
1/2-13 or 0.500-13	UNC	1A	.4485	.4152	.4411	.4245	.4985	.4822	.5000	.4500	.4930	.4597	.4170	.4340	1B
			.4482	.4146	.4414	.4251	.4984	.4823	5006	.4503	.4924	.4594	.4171	.4339	
		2A	.4485	.4152	.4435	.4269	.4985	.4876	.5000	.4500	.4898	.4565	.4170	.4340	2B
			.4482	.4146	.4438	.4275	.4984	.4877	.5006	.4503	.4892	.4562	.4171	.4339	
		3A	.4500	.4167	.4463	.4297	.5000	.4891	.5000	.4500	.4881	.4548	.4170	.4284	3B
			.4497	.4161	.4466	.4303	.4999	.4892	.5006	.4503	.4875	.4545	.4171	.4283	
1/2-16 or 0.500-16	UN	2A	.4580	.4309	.4533	.4398	.4986	.4892	.5000	.4594	.4926	.4655	.4320	.4460	2B
			.4577	.4303	.4536	.4404	.4985	.4893	.5006	.4597	.4920	.4652	.4321	.4459	
		3A	.4594	.4323	.4559	.4424	.5000	.4906	.5000	.4594	.4911	.4640	.4320	.4419	3B
			.4591	.4317	.4562	.4430	.4999	.4907	.5006	.4597	.4905	.4637	.4321	.4418	
1/2-20 or 0.500-20	UNF	1A	.4662	.4445	.4598	.4490	.4987	.4865	.5000	.4675	.4976	.4759	.4460	.4570	1B
			.4659	.4440	.4601	.4495	.4986	.4866	.5005	.4678	.4971	.4756	.4461	.4569	
		2A	.4662	.4445	.4619	.4511	.4987	.4906	.5000	.4675	.4948	.4731	.4460	.4570	2B
			.4659	.4440	.4622	.4516	.4986	.4907	.5005	.4678	.4943	.4728	.4461	.4569	
		3A	.4675	.4458	.4643	.4535	.5000	.4919	.5000	.4675	.4934	.4717	.4460	.4537	3B
			.4672	.4453	.4646	.4540	.4999	.4920	.5005	.4678	.4929	.4714	.4461	.4536	
1/2-28 or 0.500-28	UNEF	2A	.4757	.4602	.4720	.4643	.4989	.4924	.5000	.4768	.4971	.4816	.4610	.4700	2B
			.4754	.4597	.4723	.4648	.4988	.4925	.5005	.4771	.4966	.4813	.4611	.4699	
		3A	.4768	.4613	.4740	.4663	.5000	.4935	.5000	.4768	.4959	.4804	.4610	.4676	3B
			.4765	.4608	.4743	.4668	.4999	.4936	.5005	.4771	.4954	.4801	.4611	.4675	
1/2-32 or 0.500-32	UN	2A	.4787	.4652	.4752	.4684	.4990	.4930	.5000	.4797	.4977	.4842	.4660	.4740	2B
			.4784	.4647	.4755	.4689	.4989	.4931	.5005	.4800	.4972	.4839	.4661	.4739	
		3A	.4797	.4662	.4771	.4703	.5000	.4940	.5000	.4797	.4966	.4831	.4660	.4719	3B
			.4794	.4657	.4774	.4708	.4999	.4941	.5005	.4800	.4961	.4828	.4661	.4718	
9/16-12 or 0.5625-12	UNC	1A	.5068	.4707	.4990	.4810	.5609	.5437	.5625	.5084	.5547	.5186	.4720	.4900	1B
			.5065	.4701	.4993	.4816	.5608	.5438	.5631	.5087	.5541	.5183	.4721	.4899	
		2A	.5068	.4707	.5016	.4836	.5609	.5495	.5625	.5084	.5513	.5152	.4720	.4900	2B
			.5065	.4701	.5019	.4842	.5608	.5496	.5631	.5087	.5507	.5149	.4721	.4899	
		3A	.5084	.4723	.5045	.4865	.5625	.5511	.5625	.5084	.5496	.5135	.4720	.4843	3B
			.5081	.4717	.5048	.4871	.5624	.5512	.5631	.5087	.5490	.5132	.4721	.4842	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
9/16-16 or 0.5625-16	UN	2A	0.5205	0.4934	0.5158	0.5023	0.5611	0.5517	0.5625	0.5219	0.5551	0.5280	0.4950	0.5090	2B
			.5202	.4928	.5161	.5029	.5610	.5518	.5631	.5222	.5545	.5277	.4951	.5089	
		3A	.5219	.4948	.5184	.5049	.5625	.5531	.5625	.5219	.5536	.5265	.4950	.5040	3B
			.5216	.4942	.5187	.5055	.5624	.5532	.5631	.5222	.5530	.5262	.4951	.5039	
9/16-18 or 0.5625-18	UNF	1A	.5250	.5009	.5182	.5062	.5611	.5480	.5625	.5264	.5594	.5353	.5020	.5150	1B
			.5247	.5004	.5185	.5067	.5610	.5481	.5630	.5267	.5589	.5350	.5021	.5149	
		2A	.5250	.5009	.5205	.5085	.5611	.5524	.5625	.5264	.5564	.5323	.5020	.5150	2B
			.5247	.5004	.5208	.5090	.5610	.5525	.5630	.5267	.5559	.5320	.5021	.5149	
		3A	.5264	.5023	.5230	.5110	.5625	.5538	.5625	.5264	.5549	.5308	.5020	.5106	3B
			.5261	.5018	.5233	.5115	.5624	.5539	.5630	.5267	.5544	.5305	.5021	.5105	
9/16-20 or 0.5625-20	UN	2A	.5287	.5070	.5245	.5137	.5612	.5531	.5625	.5300	.5572	.5355	.5080	.5200	2B
			.5284	.5065	.5248	.5142	.5611	.5532	.5630	.5303	.5567	.5352	.5081	.5199	
		3A	.5300	.5083	.5268	.5160	.5625	.5544	.5625	.5300	.5558	.5341	.5080	.5162	3B
			.5297	.5078	.5271	.5165	.5624	.5545	.5630	.5303	.5553	.5338	.5081	.5161	
9/16-24 or 0.5625-24	UNEF	2A	.5342	.5162	.5303	.5213	.5613	.5541	.5625	.5354	.5585	.5405	.5170	.5270	2B
			.5339	.5157	.5306	.5218	.5612	.5542	.5630	.5357	.5580	.5402	.5171	.5269	
		3A	.5354	.5174	.5325	.5235	.5625	.5553	.5625	.5354	.5572	.5392	.5170	.5244	3B
			.5351	.5169	.5328	.5240	.5624	.5554	.5630	.5357	.5567	.5389	.5171	.5243	
9/16-28 or 0.5625-28	UN	2A	.5382	.5227	.5345	.5268	.5614	.5549	.5625	.5393	.5596	.5441	.5240	.5320	2B
			.5379	.5222	.5348	.5273	.5613	.5550	.5630	.5396	.5591	.5438	.5241	.5319	
		3A	.5393	.5238	.5365	.5288	.5625	.5560	.5625	.5393	.5584	.5429	.5240	.5301	3B
			.5390	.5233	.5368	.5293	.5624	.5561	.5630	.5396	.5579	.5426	.5241	.5300	
9/16-32 or 0.5625-32	UN	2A	.5412	.5277	.5377	.5309	.5615	.5555	.5625	.5422	.5602	.5467	.5290	.5360	2B
			.5409	.5272	.5380	.5314	.5614	.5556	.5630	.5425	.5597	.5464	.5291	.5359	
		3A	.5422	.5287	.5396	.5328	.5625	.5565	.5625	.5422	.5591	.5456	.5290	.5344	3B
			.5419	.5282	.5399	.5333	.5624	.5566	.5630	.5425	.5586	.5453	.5291	.5343	
5/8-11 or 0.625-11	UNC	1A	.5644	.5250	.5561	.5364	.6234	.6052	.6250	.5660	.6161	.5767	.5270	.5460	1B
			.5641	.5244	.5564	.5370	.6233	.6053	.6256	.5663	.6155	.5764	.5271	.5459	
		2A	.5644	.5250	.5589	.5392	.6234	.6113	.6250	.5660	.6126	.5732	.5270	.5460	2B
			.5641	.5244	.5592	.5398	.6233	.6114	.6256	.5663	.6120	.5729	.5271	.5459	
		3A	.5660	.5266	.5619	.5422	.6250	.6129	.6250	.5660	.6108	.5714	.5270	.5391	3B
			.5657	.5260	.5622	.5428	.6249	.6130	.6256	.5663	.6102	.5711	.5271	.5390	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5/8-12 or 0.625-12	UN	2A	0.5693	0.5332	0.5639	0.5459	0.6234	0.6120	0.6250	0.5709	0.6141	0.5780	0.5350	0.5530	2B
			.5690	.5326	.5642	.5465	.6233	.6121	.6256	.5712	.6135	.5777	.5351	.5529	
		3A	.5709	.5348	.5668	.5488	.6250	.6136	.6250	.5709	.6123	.5762	.5350	.5463	3B
			.5706	.5342	.5671	.5494	.6249	.6137	.6256	.5712	.6117	.5759	.5351	.5462	
5/8-16 or 0.625-16	UN	2A	.5830	.5559	.5782	.5647	.6236	.6142	.6250	.5844	.6177	.5906	.5650	.5710	2B
			.5827	.5553	.5785	.5653	.6235	.6143	.6256	.5847	.6171	.5903	.5571	.5709	
		3A	.5844	.5573	.5808	.5673	.6250	.6156	.6250	.5844	.6161	.5890	.5570	.5662	3B
			.5841	.5567	.5811	.5679	.6249	.6157	.6256	.5847	.6155	.5887	.5571	.5661	
5/8-18 or 0.625-18	UNF	1A	.5875	.5634	.5805	.5685	.6236	.6105	.6250	.5889	.6221	.5980	.5650	.5780	1B
			.5872	.5629	.5808	.5690	.6235	.6106	.6255	.5892	.6216	.5977	.5651	.5779	
		2A	.5875	.5634	.5828	.5708	.6236	.6149	.6250	.5889	.6190	.5949	.5650	.5780	2B
			.5872	.5629	.5831	.5713	.6235	.6150	.6255	.5892	.6185	.5946	.5651	.5779	
		3A	.5889	.5648	.5854	.5734	.6250	.6163	.6250	.5889	.6175	.5934	.5650	.5730	3B
			.5886	.5643	.5857	.5739	.6249	.6164	.6255	.5892	.6170	.5931	.5651	.5729	
5/8-20 or 0.625-20	UN	2A	.5912	.5695	.5869	.5761	.6237	.6156	.6250	.5925	.6198	.5981	.5710	.5820	2B
			.5909	.5690	.5872	.5766	.6236	.6157	.6255	.5928	.6193	.5978	.5711	.5819	
		3A	.5925	.5708	.5893	.5785	.6250	.6169	.6250	.5925	.6184	.5967	.5710	.5787	3B
			.5922	.5703	.5896	.5790	.6249	.6170	.6255	.5928	.6179	.5964	.5711	.5786	
5/8-24 or 0.625-24	UNEF	2A	.5967	.5787	.5927	.5837	.6238	.6166	.6250	.5979	.6211	.6031	.5800	.5900	2B
			.5964	.5782	.5930	5842	.6237	.6167	.6255	.5982	.6206	.6028	.5801	.5899	
		3A	.5979	.5799	.5949	.5859	.6250	.6178	.6250	.5979	.6198	.6018	.5800	.5869	3B
			.5976	.5794	.5952	.5864	.6249	.6179	.6255	.5982	.6193	.6015	.5801	.5868	
5/8-28 or 0.625-28	UN	2A	.6007	.5852	.5969	.5892	.6239	.6174	.6250	.6018	.6222	.6067	.5860	.5950	2B
			.6004	.5847	.5972	.5897	.6238	.6175	.6255	.6021	.6217	.6064	.5861	.5949	
		3A	.6018	.5863	.5990	.5913	.6250	.6185	.6250	.6018	.6210	.6055	.5860	.5926	3B
			.6015	.5858	.5993	.5918	.6249	.6186	.6255	.6021	.6205	.6052	.5861	.5925	
5/8-32 or 0.625-32	UN	2A	.6036	.5901	.6000	.5932	.6239	.6179	.6250	.6047	.6228	.6093	.5910	.5990	2B
			.6033	.5896	.6003	.5937	.6238	.6180	.6255	.6050	.6223	.6090	.5911	.5989	
		3A	.6047	.5912	.6020	.5952	.6250	.6190	.6250	.6047	.6217	.6082	.5910	.5969	3B
			.6044	.5907	.6023	.5957	.6249	.6191	.6255	.6050	.6212	.6079	.5911	.5968	
11/16-12 or 0.6875-12	UN	2A	.6318	.5957	.6264	.6084	.6859	.6745	.6875	.6334	.6766	.6405	.5970	.6150	2B
			.6315	.5951	.6267	.6090	.6858	.6746	.6881	.6337	.6760	.6402	.5971	.6149	
		3A	.6334	.5973	.6293	.6113	.6875	.6761	.6875	.6334	.6748	.6387	.5970	.6085	3B
			.6331	.5967	.6296	.6119	.6874	.6762	.6881	.6337	.6742	.6384	.5971	.6084	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 1/16-16 or 0.6875-16	UN	2A	0.6455	0.6184	0.6407	0.6272	0.6861	0.6767	0.6875	0.6469	0.6802	0.6531	0.6200	0.6340	2B
			.6452	.6178	.6410	.6278	.6860	.6768	.6881	.6472	.6796	.6528	.6201	.6339	
		3A	.6469	.6198	.6433	.6298	.6875	.6781	.6875	.6469	.6786	.6515	.6200	.6284	3B
			.6466	.6192	.6436	.6304	.6874	.6782	.6881	.6472	.6780	.6512	.6201	.6283	
1 1/16-20 or 0.6875-20	UN	2A	.6537	.6320	.6494	.6386	.6862	.6781	.6875	.6550	.6823	.6606	.6330	.6450	2B
			.6534	.6315	.6497	.6391	.6861	.6782	.6880	.6553	.6818	.6603	.6331	.6449	
		3A	.6550	.6333	.6518	.6410	.6875	.6794	.6875	.6550	.6809	.6592	.6330	.6412	3B
			.6547	.6328	.6521	.6415	.6874	.6795	.6880	.6553	.6804	.6589	.6331	.6411	
1 1/16-24 or 0.6875-24	UNEF	2A	.6592	.6412	.6552	.6462	.6863	.6791	.6875	.6604	.6836	.6656	.6420	.6520	2B
			.6589	.6407	.6555	.6467	.6862	.6792	.6880	.6607	.6831	.6653	.6421	.6519	
		3A	.6604	.6424	.6574	.6484	.6875	.6803	.6875	.6604	.6823	.6643	.6420	.6494	3B
			.6601	.6419	.6577	.6489	.6874	.6804	.6880	.6607	.6818	.6640	.6421	.6493	
1 1/16-28 or 0.6875-28	UN	2A	.6632	.6477	.6594	.6517	.6864	.6799	.6875	.6643	.6847	.6692	.6490	.6570	2B
			.6629	.6472	.6597	.6522	.6863	.6800	.6880	.6646	.6842	.6689	.6491	.6569	
		3A	.6643	.6488	.6615	.6538	.6875	.6810	.6875	.6643	.6835	.6680	.6490	.6551	3B
			.6640	.6483	.6618	.6543	.6874	.6811	.6880	.6646	.6830	.6677	.6491	.6550	
1 1/16-32 or 0.6875-32	UN	2A	.6661	.6526	.6625	.6557	.6864	.6804	.6875	.6672	.6853	.6718	.6540	.6610	2B
			.6658	.6521	.6628	.6562	.6863	.6805	.6880	.6675	.6848	.6715	.6541	.6609	
		3A	.6672	.6537	.6645	.6577	.6875	.6815	.6875	.6672	.6842	.6707	.6540	.6594	3B
			.6669	.6532	.6648	.6582	.6874	.6816	.6880	.6675	.6837	.6704	.6541	.6593	
3/4-10 or 0.750-10	UNC	1A	.6832	.6399	.6744	.6528	.7482	.7288	.7500	.6850	.7398	.6965	.6420	.6630	1B
			.6829	.6393	.6747	.6534	.7481	.7289	.7506	.6853	.7392	.6962	.6421	.6629	
		2A	.6832	.6399	.6773	.6557	.7482	.7353	.7500	.6850	.7360	.6927	.6420	.6630	2B
			.6829	.6393	.6776	.6563	.7481	.7354	.7506	.6853	.7354	.6924	.6421	.6629	
		3A	.6850	.6417	.6806	.6590	.7500	.7371	.7500	.6850	.7340	.6907	.6420	.6545	3B
			.6847	.6411	.6809	.6596	.7499	.7372	.7506	.6853	.7334	.6904	.6421	.6544	
3/4-12 or 0.750-12	UN	2A	.6942	.6581	.6887	.6707	.7483	.7369	.7500	.6959	.7392	.7031	.6600	.6780	2B
			.6939	.6575	.6890	.6713	.7482	.7370	.7506	.6962	.7386	.7028	.6601	.6779	
		3A	.6959	.6598	.6918	.6738	.7500	.7386	.7500	.6959	.7374	.7013	.6600	.6707	3B
			.6956	.6592	.6921	.6744	.7499	.7387	.7506	.6962	.7368	.7010	.6601	.6706	
3/4-16 or 0.750-16	UNF	1A	.7079	.6808	.7004	.6869	.7485	.7343	.7500	.7094	.7463	.7192	.6820	.6960	1B
			.7076	.6802	.7007	.6875	.7484	.7344	.7506	.7097	.7457	.7189	.6821	.6959	
		2A	.7079	.6808	.7029	.6894	.7485	.7391	.7500	.7094	.7430	.7159	.6820	.6960	2B
			.7076	.6802	.7032	.6900	.7484	.7392	.7506	.7097	.7424	.7156	.6821	.6959	
		3A	.7094	.6823	.7056	.6921	.7500	.7406	.7500	.7094	.7414	.7143	.6820	.6908	3B
			.7091	.6817	.7059	.6927	.7499	.7407	.7506	.7097	.7408	.7140	.6821	.6907	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
¾-20 or 0.750-20	UNEF	2A	0.7162	0.6945	0.7118	0.7010	0.7487	0.7406	0.7500	0.7175	0.7449	0.7232	0.6960	0.7070	2B
			.7159	.6940	.7121	.7015	.7486	.7407	.7505	.7178	.7444	.7229	.6961	.7069	
		3A	.7175	.6958	.7142	.7034	.7500	.7419	.7500	.7175	.7435	.7218	.6960	.7037	3B
			.7172	.6953	.7145	.7039	.7499	.7420	.7505	.7178	.7430	.7215	.6961	.7036	
¾-28 or 0.750-28	UN	2A	.7256	.7101	.7218	.7141	.7488	.7423	.7500	.7268	.7473	.7318	.7110	.7200	2B
			.7253	.7096	.7221	.7146	.7487	.7424	.7505	.7271	.7468	.7315	.7111	.7199	
		3A	.7268	.7113	.7239	.7162	.7500	.7435	.7500	.7268	.7460	.7305	.7110	.7176	3B
			.7265	.7108	.7242	.7167	.7499	.7436	.7505	.7271	.7455	.7302	.7111	.7175	
¾-32 or 0.750-32	UN	2A	.7286	.7151	.7250	.7182	.7489	.7429	.7500	.7297	.7479	.7344	.7160	.7240	2B
			.7283	.7146	.7253	.7187	.7488	.7430	.7505	.7300	.7474	.7341	.7161	.7239	
		3A	.7297	.7162	.7270	.7202	.7500	.7440	.7500	.7297	.7468	.7333	.7160	.7219	3B
			.7294	.7157	.7273	.7207	.7499	.7441	.7505	.7300	.7463	.7330	.7161	.7218	
13/16-12 or 0.8125-12	UN	2A	.7567	.7206	.7512	.7332	.8108	.7994	.8125	.7584	.8017	.7656	.7220	.7400	2B
			.7564	.7200	.7515	.7338	.8107	.7995	.8131	.7587	.8011	.7653	.7221	.7399	
		3A	.7584	.7223	.7543	.7363	.8125	.8011	.8125	.7584	.7999	.7638	.7220	.7329	3B
			.7581	.7217	.7546	.7369	.8124	.8012	.8131	.7587	.7993	.7635	.7221	.7328	
13/16-16 or 0.8125-16	UN	2A	.7704	.7433	.7655	.7520	.8110	.8016	.8125	.7719	.8053	.7782	.7450	.7590	2B
			.7701	.7427	.7658	.7526	.8109	.8017	.8131	.7722	.8047	.7779	.7451	.7589	
		3A	.7719	.7448	.7683	.7548	.8125	.8031	.8125	.7719	.8037	.7766	.7450	.7533	3B
			.7716	.7442	.7686	.7554	.8124	.8032	.8131	.7722	.8031	.7763	.7451	.7532	
13/16-20 or 0.8125-20	UNEF	2A	.7787	.7570	.7743	.7635	.8112	.8031	.8125	.7800	.8074	.7857	.7580	.7700	2B
			.7784	.7565	.7746	.7640	.8111	.8032	.8130	.7803	.8069	.7854	.7581	.7699	
		3A	.7800	.7583	.7767	.7659	.8125	.8044	.8125	.7800	.8060	.7843	.7580	.7662	3B
			.7797	.7578	.7770	.7664	.8124	.8045	.8130	.7803	.8055	.7840	.7581	.7661	
13/16-28 or 0.8125-28	UN	2A	.7881	.7726	.7843	.7766	.8113	.8048	.8125	.7893	.8098	.7943	.7740	.7820	2B
			.7878	.7721	.7846	.7771	.8112	.8049	.8130	.7896	.8093	.7940	.7741	.7819	
		3A	.7893	.7738	.7864	.7787	.8125	.8060	.8125	.7893	.8085	.7930	.7740	.7801	3B
			.7890	.7733	.7867	.7792	.8124	.8061	.8130	.7896	.8080	.7927	.7741	.7800	
13/16-32 or 0.8125-32	UN	2A	.7911	.7776	.7875	.7807	.8114	.8054	.8125	.7922	.8104	.7969	.7790	.7860	2B
			.7908	.7771	.7878	.7812	.8113	.8055	.8130	.7925	.8099	.7966	.7791	.7859	
		3A	.7922	.7787	.7895	.7827	.8125	.8065	.8125	.7922	.8093	.7958	.7790	.7844	3B
			.7919	.7782	.7898	.7832	.8124	.8066	.8130	.7925	.8088	.7955	.7791	.7843	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
7/8-9 or .875-9	UNC	1A	0.8009	0.7528	0.7914	0.7673	0.87310	0.85230	0.8750	0.8028	0.8632	0.8151	0.75500	0.77800	1B
			.8006	.7521	.7917	.7680	.87298	.85242	.8757	.8031	.8625	.8148	.75512	.77788	
		2A	.8009	.7528	.7946	.7705	.87310	.85920	.8750	.8028	.8591	.8110	.75500	.77800	2B
			.8006	.7521	.7949	.7712	.87298	.85932	.8757	.8031	.8584	.8107	.75512	.77788	
		3A	.8028	.7547	.7981	.7740	.87500	.86110	.8750	.8028	.8570	.8089	.75500	.76810	3B
			.8025	.7540	.7984	.7747	.87488	.86122	.8757	.8031	.8563	.8086	.75512	.76798	
7/8-12 or 0.875-12	UN	2A	.8192	.7831	.8137	.7957	.87330	.86190	.8750	.8209	.8642	.8281	.78500	.80300	2B
			.8189	.7825	.8140	.7963	.87318	.86202	.8756	.8212	.8636	.8278	.78512	.80288	
		3A	.8209	.7848	.8168	.7988	.87500	.86360	.8750	.8209	.8624	.8263	.78500	.79520	3B
			.8206	.7842	.8171	.7994	.87488	.86372	.8756	.8212	.8618	.8260	.78512	.79508	
7/8-14 or 0.875-14	UNF	1A	.8270	.7961	.8189	.8034	.87340	.85790	.8750	.8286	.8701	.8392	.79800	.81400	1B
			.8267	.7955	.8192	.8040	.87328	.85802	.8756	.8289	.8695	.8389	.79812	.81388	
		2A	.8270	.7961	.8216	.8061	.87340	.86310	.8750	.8286	.8665	.8356	.79800	.81400	2B
			.8267	.7955	.8219	.8067	.87328	.86322	.8756	.8289	.8659	.8353	.79812	.81388	
		3A	.8286	.7977	.8245	.8090	.87500	.86470	.8750	.8286	.8648	.8339	.79800	.80680	3B
			.8283	.7971	.8248	.8096	.87488	.86482	.8756	.8289	.8642	.8336	.79812	.80668	
7/8-16 or 0.875-16	UN	2A	.8329	.8058	.8280	.8145	.87350	.86410	.8750	.8344	.8678	.8407	.80700	.82100	2B
			.8326	.8052	.8283	.8151	.87338	.86422	.8756	.8347	.8672	.8404	.80712	.82088	
		3A	.8344	.8073	.8308	.8173	.87500	.86560	.8750	.8344	.8662	.8391	.80700	.81580	3B
			.8341	.8067	.8311	.8179	.87488	.86572	.8756	.8347	.8656	.8388	.80712	.81568	
7/8-20 or 0.875-20	UNEF	2A	.8412	.8195	.8368	.8260	.87370	.86560	.8750	.8425	.8699	.8482	.82100	.83200	2B
			.8409	.8190	.8371	.8265	.87358	.86572	.8755	.8428	.8694	.8479	.82112	.83188	
		3A	.8425	.8208	.8392	.8284	.87500	.86690	.8750	.8425	.8685	.8468	.82100	.82870	3B
			.8422	.8203	.8395	.8289	.87488	.86702	.8755	.8428	.8680	.8465	.82112	.82858	
7/8-28 or 0.875-28	UN	2A	.8506	.8351	.8468	.8391	.87380	.86730	.8750	.8518	.8723	.8568	.83600	.84500	2B
			.8503	.8346	.8471	.8396	.87368	.86742	.8755	.8521	.8718	.8565	.83612	.84488	
		3A	.8518	.8363	.8489	.8412	.87500	.86850	.8750	.8518	.8710	.8555	.83600	.84260	3B
			.8515	.8358	.8492	.8417	.87488	.86862	.8755	.8521	.8705	.8552	.83612	.84248	
7/8-32 or 0.875-32	UN	2A	.8536	.8401	.8500	.8432	.87390	.86790	.8750	.8547	.8729	.8596	.84100	.84900	2B
			.8533	.8396	.8503	.8437	.87378	.86802	.8755	.8550	.8724	.8591	.84112	.84888	
		3A	.8547	.8412	.8520	.8452	.87500	.86900	.8750	.8547	.8718	.8583	.84100	.84690	3B
			.8544	.8407	.8523	.8457	.87488	.86912	.8755	.8550	.8713	.8580	.84112	.84678	
15/16-12 or 0.9375-12	UN	2A	.8817	.8456	.8760	.8580	.93580	.92440	.9375	.8834	.9269	.8908	.84700	.86500	2B
			.8814	.8450	.8763	.8586	.93568	.92452	.9381	.8837	.9263	.8905	.84712	.86488	
		3A	.8834	.8473	.8792	.8612	.93750	.92610	.9375	.8834	.9250	.8889	.84700	.85750	3B
			.8831	.8467	.8795	.8618	.93738	.92622	.9381	.8837	.9244	.8886	.84712	.85738	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
15/16-16 or 0.9375-16	UN	2A	0.8954	0.8683	0.8904	0.8769	0.93600	0.92660	0.9375	0.8969	0.9305	0.9034	0.87000	0.88400	2B
			.8951	.8677	.8907	.8775	.93588	.92672	.9381	.8972	.9299	.9031	.87012	.88388	
		3A	.8969	.8698	.8932	.8797	.93750	.92810	.9375	.8969	.9289	.9018	.87000	.87830	3B
			.8966	.8692	.8935	.8803	.93738	.92822	.9381	.8972	.9283	.9015	.87012	.87818	
15/16-20 or 0.9375-20	UNEF	2A	.9036	.8819	.8991	.8883	.93610	.92800	.9375	.9050	.9326	.9109	.88300	.89500	2B
			.9033	.8814	.8994	.8888	.93598	.92812	.9380	.9053	.9321	.9106	.88312	.89488	
		3A	.9050	.8833	.9016	.8908	.93750	.92940	.9375	.9050	.9311	.9094	.88300	89120	3B
			.9047	.8828	.9019	.8913	.93738	.92952	.9380	.9053	.9306	.9091	.88312	89108	
15/16-28 or 0.9375-28	UN	2A	.9131	.8976	.9091	.9014	.93630	.92980	.9375	.9143	.9350	.9195	.89900	.90700	2B
			.9128	.8971	.9094	.9019	.93618	.92992	.9380	.9146	.9345	.9192	.89912	.90688	
		3A	.9143	.8988	.9113	.9036	.93750	.93100	.9375	.9143	.9337	.9182	.89900	.90510	3B
			.9140	.8983	.9116	.9041	.93738	.93112	.9380	.9146	.9332	.9179	.89912	.90498	
15/16-32 or 0.9375-32	UN	2A	.9161	.9026	.9123	.9055	.93640	.93040	.9375	.9172	.9356	.9221	.90400	.91100	2B
			.9158	.9021	.9126	.9060	.93628	.93052	.9380	.9175	.9351	.9218	.90412	.91088	
		3A	.9172	.9037	.9144	.9076	.93750	.93150	.9375	.9172	.9344	.9209	.90400	.90940	3B
			.9169	.9032	.9147	.9081	.93738	.93162	.9380	.9175	.9339	.9206	.90412	.90928	
1-8 or 1.000-8	UNC	1A	.9168	.8627	.9067	.8796	.99800	.97550	1.0000	.9188	.9861	.9320	.86500	.89000	1B
			.9164	.8620	.9071	.8803	.99788	.97562	1.0007	.9192	.9854	.9316	.86512	.88988	
		2A	.9168	.8627	.9100	.8829	.99800	.98300	1.0000	.9188	.9817	.9276	.86500	.89000	2B
			.9164	.8620	.9104	.8836	.99788	.98312	1.0007	.9192	.9810	.9272	.86512	.88988	
		3A	.9188	.8647	.9137	.8866	1.00000	.98500	1.0000	.9188	.9795	.9254	.86500	.87970	3B
			.9184	.8640	.9141	.8873	.99988	.98512	1.0007	.9192	.9788	.9250	.86512	.87958	
1-12 or 1.000-12	UNF	1A	.9441	.9080	.9353	.9173	.99820	.98100	1.0000	.9459	.9934	.9573	.91000	.92800	1B
			.9438	.9074	.9356	.9179	.99808	.98112	1.0006	.9462	.9928	.9570	.91012	.92788	
		2A	.9441	.9080	.9382	.9202	.99820	.98680	1.0000	.9459	.9896	.9535	.91000	.92800	2B
			.9438	.9074	.9385	.9208	.99808	.98692	1.0006	.9462	.9890	.9532	.91012	.92788	
		3A	.9459	.9098	.9415	.9235	1.00000	.98860	1.0000	.9459	.9877	.9516	.91000	.91980	3B
			.9456	.9092	.9418	.9241	.99988	.98872	1.0006	.9462	.9871	.9513	.91012	.91968	
1-16 or 1.000-16	UN	2A	.9579	.9308	.9529	.9394	.99850	.98910	1.0000	.9594	.9930	.9659	.93200	.94600	2B
			.9576	.9302	.9532	.9400	.99838	.98922	1.0006	.9597	.9924	.9656	.93212	.94588	
		3A	.9594	.9323	.9557	.9422	1.00000	.99060	1.0000	.9594	.9914	.9643	.93200	.94080	3B
			.9591	.9317	.9560	.9428	.99988	.99072	1.0006	.9597	.9908	.9640	.93212	.94068	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1-20 or 1.000-20	UNEF	2A	0.9661	0.9444	0.9616	0.9508	0.99860	0.99050	1.0000	0.9675	0.9951	0.9734	0.94600	0.95700	2B
			.9658	.9439	.9619	.9513	.99848	.99062	1.0005	.9678	.9946	.9731	.94612	.95688	
		3A	.9675	.9458	.9641	.9533	1.00000	.99190	1.0000	.9675	.9936	.9719	.94600	.95370	3B
			.9672	.9453	.9644	.9538	.99988	.99202	1.0005	.9678	.9931	.9716	.94612	.95358	
1-28 or 1.000-28	UN	2A	.9756	.9601	.9716	.9639	.99880	.99230	1.0000	.9768	.9975	.9820	.96100	.97000	2B
			.9753	.9596	.9719	.9644	.99868	.99242	1.0005	.9771	.9970	.9817	.96112	.96988	
		3A	.9768	.9613	.9738	.9661	1.00000	.99350	1.0000	.9768	.9962	.9807	.96100	.96760	3B
			.9765	.9608	.9741	.9666	.99988	.99362	1.0005	.9771	.9957	.9804	.96112	.96748	
1-32 or 1.000-32	UN	2A	.9786	.9651	.9748	.9680	.99890	.99290	1.0000	.9797	.9981	.9846	.96600	.97400	2B
			.9783	.9646	.9751	.9685	.99878	.99302	1.0005	.9800	.9976	.9843	.96612	.97388	
		3A	.9797	.9662	.9769	.9701	1.00000	.99400	1.0000	.9797	.9969	.9834	.96600	.97190	3B
			.9794	.9657	.9772	.9706	.99988	.99412	1.0005	.9800	.9964	.9831	.96612	.97178	
1 1/16-8 or 1.0625-8	UN	2A	.9793	.9252	.9725	.9454	1.06050	1.04550	1.0625	.9813	1.0443	.9902	.92700	.95200	2B
			.9789	.9245	.9729	.9461	1.06038	1.04562	1.0632	.9817	1.0436	.9898	.92712	.95188	
		3A	.9813	.9272	.9762	.9491	1.06250	1.04750	1.0625	.9813	1.0421	.9880	.92700	.94220	3B
			.9809	.9265	.9766	.9498	1.06238	1.04762	1.0632	.9817	1.0414	.9876	.92712	.94208	
1 1/16-12 or 1.0625-12	UN	2A	1.0067	.9706	1.0010	.9830	1.06080	1.04940	1.0625	1.0084	1.0519	1.0158	.97200	.99000	2B
			1.0064	.9700	1.0013	.9836	1.06068	1.04952	1.0631	1.0087	1.0513	1.0155	.97212	.98988	
		3A	1.0084	.9723	1.0042	.9862	1.06250	1.05110	1.0625	1.0084	1.0500	1.0139	.97200	.98230	3B
			1.0081	.9717	1.0045	.9868	1.06238	1.05122	1.0631	1.0087	1.0494	1.0136	.97212	.98218	
1 1/16-16 or 1.0625-16	UN	2A	1.0204	.9933	1.0154	1.0019	1.06100	1.05160	1.0625	1.0219	1.0555	1.0284	.99500	1.00900	2B
			1.0201	.9927	1.0157	1.0025	1.06088	1.05172	1.0631	1.0222	1.0549	1.0281	.99512	1.00888	
		3A	1.0219	.9948	1.0182	1.0047	1.06250	1.05310	1.0625	1.0219	1.0539	1.0268	.99500	1.00330	3B
			1.0216	.9942	1.0185	1.0053	1.06238	1.05322	1.0631	1.0222	1.0533	1.0265	.99512	1.00318	
1 1/16-18 or 1.0625-18	UNEF	2A	1.0250	1.0009	1.0203	1.0083	1.06110	1.05240	1.0625	1.0264	1.0567	1.0326	1.00200	1.01500	2B
			1.0247	1.0004	1.0206	1.0088	1.06098	1.05252	1.0630	1.0267	1.0562	1.0323	1.00212	1.01488	
		3A	1.0264	1.0023	1.0228	1.0108	1.06250	1.05380	1.0625	1.0264	1.0551	1.0310	1.00200	1.01050	3B
			1.0261	1.0018	1.0231	1.0113	1.06238	1.05392	1.0630	1.0267	1.0546	1.0307	1.00212	1.01038	
1 1/16-20 or 1.0625-20	UN	2A	1.0286	1.0069	1.0241	1.0133	1.06110	1.05300	1.0625	1.0300	1.0576	1.0359	1.00800	1.02000	2B
			1.0283	1.0064	1.0244	1.0138	1.06098	1.05312	1.0630	1.0303	1.0571	1.0356	1.00812	1.01988	
		3A	1.0300	1.0083	1.0266	1.0158	1.06250	1.05440	1.0625	1.0300	1.0561	1.0344	1.00800	1.01620	3B
			1.0297	1.0078	1.0269	1.0163	1.06238	1.05452	1.0630	1.0303	1.0556	1.0341	1.00812	1.01608	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 1/16-28 or 1.0625-28	UN	2A	1.0381	1.0226	1.0341	1.0264	1.06130	1.05480	1.0625	1.0393	1.0600	1.0445	1.02400	1.03200	2B
			1.0378	1.0221	1.0344	1.0269	1.06118	1.05492	1.0630	1.0396	1.0595	1.0442	1.02412	1.03188	
		3A	1.0393	1.0238	1.0363	1.0286	1.06250	1.05600	1.0625	1.0393	1.0587	1.0432	1.02400	1.03010	3B
			1.0390	1.0233	1.0366	1.0291	1.06238	1.05612	1.0630	1.0396	1.0582	1.0429	1.02412	1.02998	
1 1/8-7 or 1.125-7	UNC	1A	1.0300	.9681	1.0191	.9882	1.12280	1.09820	1.1250	1.0322	1.1082	1.0463	.97000	.99800	1B
			1.0296	.9674	1.0195	.9889	1.12268	1.09832	1.1257	1.0326	1.1075	1.0459	.97012	.99788	
		2A	1.0300	.9681	1.0228	.9919	1.12280	1.10640	1.1250	1.0322	1.1035	1.0416	.97000	.99800	2B
			1.0296	.9674	1.0232	.9926	1.12268	1.10652	1.1257	1.0326	1.1028	1.0412	.97012	.99788	
		3A	1.0322	.9703	1.0268	.9959	1.12500	1.10860	1.1250	1.0322	1.1012	1.0393	.97000	.98750	3B
			1.0318	.9696	1.0272	.9966	1.12488	1.10872	1.1257	1.0326	1.1005	1.0389	.97012	.98738	
1 1/8-8 or 1.125-8	UN	2A	1.0417	.9876	1.0348	1.0077	1.12290	1.10790	1.1250	1.0438	1.1069	1.0528	.99000	1.01500	2B
			1.0413	.9869	1.0352	1.0084	1.12278	1.10802	1.1257	1.0442	1.1062	1.0524	.99012	1.01488	
		3A	1.0438	.9897	1.0386	1.0115	1.12500	1.11000	1.1250	1.0438	1.1046	1.0505	.99000	1.00470	3B
			1.0434	.9890	1.0390	1.0122	1.12488	1.11012	1.1257	1.0442	1.1039	1.0501	.99012	1.00458	
1 1/8-12 or 1.125-12	UNF	1A	1.0691	1.0330	1.0601	1.0421	1.12320	1.10600	1.1250	1.0709	1.1187	1.0826	1.03500	1.05300	1B
			1.0688	1.0324	1.0604	1.0427	1.12308	1.10612	1.1256	1.0712	1.1181	1.0823	1.03512	1.05288	
		2A	1.0691	1.0330	1.0631	1.0451	1.12320	1.11180	1.1250	1.0709	1.1148	1.0787	1.03500	1.05300	2B
			1.0688	1.0324	1.0634	1.0457	1.12308	1.11192	1.1256	1.0712	1.1142	1.0784	1.03512	1.05288	
		3A	1.0709	1.0348	1.0664	1.0484	1.12500	1.11360	1.1250	1.0709	1.1129	1.0768	1.03500	1.04480	3B
			1.0706	1.0342	1.0667	1.0490	1.12488	1.11372	1.1256	1.0712	1.1123	1.0765	1.03512	1.04468	
1 1/8-16 or 1.125-16	UN	2A	1.0829	1.0558	1.0779	1.0644	1.12350	1.11410	1.1250	1.0844	1.1180	1.0909	1.05700	1.07100	2B
			1.0826	1.0552	1.0782	1.0650	1.12338	1.11422	1.1256	1.0847	1.1174	1.0906	1.05712	1.07088	
		3A	1.0844	1.0573	1.0807	1.0672	1.12500	1.11560	1.1250	1.0844	1.1164	1.0893	1.05700	1.06580	3B
			1.0841	1.0567	1.0810	1.0678	1.12488	1.11572	1.1256	1.0847	1.1158	1.0890	1.05712	1.06568	
1 1/8-18 or 1.125-18	UNEF	2A	1.0875	1.0634	1.0828	1.0708	1.12360	1.11490	1.1250	1.0889	1.1192	1.0951	1.06500	1.07800	2B
			1.0872	1.0629	1.0831	1.0713	1.12348	1.11502	1.1255	1.0892	1.1187	1.0948	1.06512	1.07788	
		3A	1.0889	1.0648	1.0853	1.0733	1.12500	1.11630	1.1250	1.0889	1.1176	1.0935	1.06500	1.07300	3B
			1.0886	1.0643	1.0856	1.0738	1.12488	1.11642	1.1255	1.0892	1.1171	1.0932	1.06512	1.07288	
1 1/8-20 or 1.125-20	UN	2A	1.0911	1.0694	1.0866	1.0758	1.12360	1.11550	1.1250	1.0925	1.1201	1.0984	1.07100	1.08200	2B
			1.0908	1.0689	1.0869	1.0763	1.12348	1.11562	1.1255	1.0928	1.1196	1.0981	1.07112	1.08188	
		3A	1.0925	1.0708	1.0891	1.0783	1.12500	1.11690	1.1250	1.0925	1.1186	1.0969	1.07100	1.07870	3B
			1.0922	1.0703	1.0894	1.0788	1.12488	1.11702	1.1255	1.0928	1.1181	1.0966	1.07112	1.07858	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1⅛-28 or 1.125-28	UN	2A	1.1006	1.0851	1.0966	1.0889	1.12380	1.11730	1.1250	1.1018	1.1225	1.1070	1.08600	1.09500	2B
			1.1003	1.0846	1.0969	1.0894	1.12368	1.11742	1.1255	1.1021	1.1220	1.1067	1.08612	1.09488	
		3A	1.1018	1.0863	1.0988	1.0911	1.12500	1.11850	1.1250	1.1018	1.1212	1.1057	1.08600	1.09260	3B
			1.1015	1.0858	1.0991	1.0916	1.12488	1.11862	1.1255	1.1021	1.1217	1.1054	1.08612	1.09248	
1³⁄16-8 or 1.1875-8	UN	2A	1.1042	1.0501	1.0972	1.0701	1.18540	1.17040	1.1875	1.1063	1.1695	1.1154	1.05200	1.07700	2B
			1.1038	1.0494	1.0976	1.0708	1.18528	1.17052	1.1882	1.1067	1.1688	1.1150	1.05212	1.07688	
		3A	1.1063	1.0522	1.1011	1.0740	1.18750	1.17250	1.1875	1.1063	1.1672	1.1131	1.05200	1.06720	3B
			1.1059	1.0515	1.1015	1.0747	1.18738	1.17262	1.1882	1.1067	1.1665	1.1127	1.05212	1.06708	
1³⁄16-12 or 1.1875-12	UN	2A	1.1317	1.0956	1.1259	1.1079	1.18580	1.17440	1.1875	1.1334	1.1770	1.1409	1.09700	1.11500	2B
			1.1314	1.0950	1.1262	1.1085	1.18568	1.17452	1.1881	1.1337	1.1764	1.1406	1.09712	1.11488	
		3A	1.1334	1.0973	1.1291	1.1111	1.18750	1.17610	1.1875	1.1334	1.1751	1.1390	1.09700	1.10730	3B
			1.1331	1.0967	1.1294	1.1117	1.18738	1.17622	1.1881	1.1337	1.1745	1.1387	1.09712	1.10718	
1³⁄16-16 or 1.1875-16	UN	2A	1.1454	1.1183	1.1403	1.1268	1.18600	1.17660	1.1875	1.1469	1.1806	1.1535	1.12000	1.13400	2B
			1.1451	1.1177	1.1406	1.1274	1.18588	1.17672	1.1881	1.1472	1.1800	1.1532	1.12012	1.13388	
		3A	1.1469	1.1198	1.1431	1.1296	1.18750	1.17810	1.1875	1.1469	1.1790	1.1519	1.12000	1.12830	3B
			1.1466	1.1192	1.1434	1.1302	1.18738	1.17822	1.1881	1.1472	1.1784	1.1516	1.12012	1.12818	
1³⁄16-18 or 1.1875-18	UNEF	2A	1.1499	1.1258	1.1450	1.1330	1.18600	1.17730	1.1875	1.1514	1.1818	1.1577	1.12700	1.14000	2B
			1.1496	1.1253	1.1453	1.1335	1.18588	1.17742	1.1880	1.1517	1.1813	1.1574	1.12712	1.13988	
		3A	1.1514	1.1273	1.1478	1.1358	1.18750	1.17880	1.1875	1.1514	1.1802	1.1561	1.12700	1.13550	3B
			1.1511	1.1268	1.1481	1.1363	1.18738	1.17892	1.1880	1.1517	1.1797	1.1558	1.12712	1.13538	
1³⁄16-20 or 1.1875-20	UN	2A	1.1536	1.1319	1.1489	1.1381	1.18610	1.17800	1.1875	1.1550	1.1828	1.1611	1.13300	1.14500	2B
			1.1533	1.1314	1.1492	1.1386	1.18598	1.17812	1.1880	1.1553	1.1823	1.1608	1.13312	1.14488	
		3A	1.1550	1.1333	1.1515	1.1407	1.18750	1.17940	1.1875	1.1550	1.1812	1.1595	1.13300	1.14120	3B
			1.1547	1.1328	1.1518	1.1412	1.18738	1.17952	1.1880	1.1553	1.1807	1.1592	1.13312	1.14108	
1³⁄16-28 or 1.1875-28	UN	2A	1.1631	1.1476	1.1590	1.1513	1.18630	1.17980	1.1875	1.1643	1.1851	1.1696	1.14900	1.15700	2B
			1.1628	1.1471	1.1593	1.1518	1.18618	1.17992	1.1880	1.1646	1.1846	1.1693	1.14912	1.15688	
		3A	1.1643	1.1488	1.1612	1.1535	1.18750	1.18100	1.1875	1.1643	1.1838	1.1683	1.14900	1.15510	3B
			1.1640	1.1483	1.1615	1.1540	1.18738	1.18112	1.1880	1.1646	1.1833	1.1680	1.14912	1.15498	
1¼-7 or 1.250-7	UNC	1A	1.1550	1.0931	1.1439	1.1130	1.24780	1.22320	1.2500	1.1572	1.2335	1.1716	1.09500	1.12300	1B
			1.1546	1.0924	1.1443	1.1137	1.24768	1.22332	1.2507	1.1576	1.2328	1.1712	1.09512	1.12288	
		2A	1.1550	1.0931	1.1476	1.1167	1.24780	1.23140	1.2500	1.1572	1.2287	1.1668	1.09500	1.12300	2B
			1.1546	1.0924	1.1480	1.1174	1.24768	1.23152	1.2507	1.1576	1.2280	1.1664	1.09512	1.12288	
		3A	1.1572	1.0953	1.1517	1.1208	1.25000	1.23360	1.2500	1.1572	1.2263	1.1644	1.09500	1.11250	3B
			1.1568	1.0946	1.1521	1.1215	1.24988	1.23372	1.2507	1.1576	1.2256	1.1640	1.09512	1.11238	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages			Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)			GO		NOT GO (HI)				
		Class	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1¼-8 or 1.250-8	UN	2A	1.1667	1.1126	1.1597	1.1326	1.24790	1.23290	1.2500	1.1688	1.2321	1.1780	1.11500	1.14000	2B
			1.1663	1.1119	1.1601	1.1333	1.24778	1.23302	1.2507	1.1692	1.2314	1.1776	1.11512	1.13988	
		3A	1.1688	1.1147	1.1635	1.1364	1.25000	1.23500	1.2500	1.1688	1.2298	1.1757	1.11500	1.12970	3B
			1.1684	1.1140	1.1639	1.1371	1.24988	1.23512	1.2507	1.1692	1.2291	1.1753	1.11512	1.12958	
1¼-12 or 1.250-12	UNF	1A	1.1941	1.1580	1.1849	1.1669	1.24820	1.23100	1.2500	1.1959	1.2440	1.2079	1.16000	1.17800	1B
			1.1938	1.1574	1.1852	1.1675	1.24808	1.23112	1.2506	1.1962	1.2434	1.2076	1.16012	1.17788	
		2A	1.1941	1.1580	1.1879	1.1699	1.24820	1.23680	1.2500	1.1959	1.2400	1.2039	1.16000	1.17800	2B
			1.1938	1.1574	1.1882	1.1705	1.24808	1.23692	1.2506	1.1962	1.2394	1.2036	1.16012	1.17788	
		3A	1.1959	1.1598	1.1913	1.1733	1.25000	1.23860	1.2500	1.1959	1.2380	1.2019	1.16000	1.16980	3B
			1.1956	1.1592	1.1916	1.1739	1.24988	1.23872	1.2506	1.1962	1.2374	1.2016	1.16012	1.16968	
1¼-16 or 1.250-16	UN	2A	1.2079	1.1808	1.2028	1.1893	1.24850	1.23910	1.2500	1.2094	1.2431	1.2160	1.18200	1.19600	2B
			1.2076	1.1802	1.2031	1.1899	1.24838	1.23922	1.2506	1.2097	1.2425	1.2157	1.18212	1.19588	
		3A	1.2094	1.1823	1.2056	1.1921	1.25000	1.24060	1.2500	1.2094	1.2415	1.2144	1.18200	1.19080	3B
			1.2091	1.1817	1.2059	1.1927	1.24988	1.24072	1.2506	1.2097	1.2409	1.2141	1.18212	1.19068	
1¼-18 or 1.250-18	UNEF	2A	1.2124	1.1883	1.2075	1.1955	1.24850	1.23980	1.2500	1.2139	1.2443	1.2202	1.19000	1.20300	2B
			1.2121	1.1878	1.2078	1.1960	1.24838	1.23992	1.2505	1.2142	1.2438	1.2199	1.19012	1.20288	
		3A	1.2139	1.1898	1.2103	1.1983	1.25000	1.24130	1.2500	1.2139	1.2427	1.2186	1.19000	1.19800	3B
			1.2136	1.1893	1.2106	1.1988	1.24988	1.24142	1.2505	1.2142	1.2422	1.2183	1.19012	1.19788	
1¼-20 or 1.250-20	UN	2A	1.2161	1.1944	1.2114	1.2006	1.24860	1.24050	1.2500	1.2175	1.2453	1.2236	1.19600	1.20700	2B
			1.2158	1.1939	1.2117	1.2011	1.24848	1.24062	1.2505	1.2178	1.2448	1.2233	1.19612	1.20688	
		3A	1.2175	1.1958	1.2140	1.2032	1.25000	1.24190	1.2500	1.2175	1.2437	1.2220	1.19600	1.20370	3B
			1.2172	1.1953	1.2143	1.2037	1.24988	1.24202	1.2505	1.2178	1.2432	1.2217	1.19612	1.20358	
1¼-28 or 1.250-28	UN	2A	1.2256	1.2101	1.2215	1.2138	1.24880	1.24230	1.2500	1.2268	1.2476	1.2321	1.21100	1.22000	2B
			1.2253	1.2096	1.2218	1.2143	1.24868	1.24242	1.2505	1.2271	1.2471	1.2318	1.21112	1.21988	
		3A	1.2268	1.2113	1.2237	1.2160	1.25000	1.24350	1.2500	1.2268	1.2463	1.2308	1.21100	1.21760	3B
			1.2265	1.2108	1.2240	1.2165	1.24988	1.24362	1.2505	1.2271	1.2458	1.2305	1.21112	1.21748	
1⁵⁄16-8 or 1.3125-8	UN	2A	1.2292	1.1751	1.2221	1.1950	1.31040	1.29540	1.3125	1.2313	1.2946	1.2405	1.17700	1.20200	2B
			1.2288	1.1744	1.2225	1.1957	1.31028	1.29552	1.3132	1.2317	1.2939	1.2401	1.17712	1.20188	
		3A	1.2313	1.1772	1.2260	1.1989	1.31250	1.29750	1.3125	1.2313	1.2923	1.2382	1.17700	1.19220	3B
			1.2309	1.1765	1.2264	1.1996	1.31238	1.29762	1.3132	1.2317	1.2916	1.2378	1.17712	1.19208	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 5/16-12 or 1.3125-12	UN	2A	1.2567	1.2206	1.2509	1.2329	1.31080	1.29940	1.3125	1.2584	1.3020	1.2659	1.22200	1.24000	2B
			1.2564	1.2200	1.2512	1.2335	1.31068	1.29952	1.3131	1.2587	1.3014	1.2656	1.22212	1.23988	
		3A	1.2584	1.2223	1.2541	1.2361	1.31250	1.30110	1.3125	1.2584	1.3001	1.2640	1.22200	1.23230	3B
			1.2581	1.2217	1.2544	1.2367	1.31238	1.30122	1.3131	1.2587	1.2995	1.2637	1.22212	1.23218	
1 5/16-16 or 1.3125-16	UN	2A	1.2704	1.2433	1.2653	1.2518	1.31100	1.30160	1.3125	1.2719	1.3056	1.2785	1.24500	1.25900	2B
			1.2701	1.2427	1.2656	1.2524	1.31088	1.30172	1.3131	1.2722	1.3050	1.2782	1.24512	1.25888	
		3A	1.2719	1.2448	1.2681	1.2546	1.31250	1.30310	1.3125	1.2719	1.3040	1.2769	1.24500	1.25330	3B
			1.2716	1.2442	1.2684	1.2552	1.31238	1.30322	1.3131	1.2722	1.3034	1.2766	1.24512	1.25318	
1 5/16-18 or 1.3125-18	UNEF	2A	1.2749	1.2508	1.2700	1.2580	1.31100	1.30230	1.3125	1.2764	1.3068	1.2827	1.25200	1.26500	2B
			1.2746	1.2503	1.2703	1.2585	1.31088	1.30242	1.3130	1.2767	1.3063	1.2824	1.25212	1.26488	
		3A	1.2764	1.2523	1.2728	1.2608	1.31250	1.30380	1.3125	1.2764	1.3052	1.2811	1.25200	1.26050	3B
			1.2761	1.2518	1.2731	1.2613	1.31238	1.30392	1.3130	1.2767	1.3047	1.2808	1.25212	1.26038	
1 5/16-20 or 1.3125-20	UN	2A	1.2786	1.2569	1.2739	1.2631	1.31110	1.30300	1.3125	1.2800	1.3078	1.2861	1.25800	1.27000	2B
			1.2783	1.2564	1.2742	1.2636	1.31098	1.30312	1.3130	1.2803	1.3073	1.2858	1.25812	1.26988	
		3A	1.2800	1.2583	1.2765	1.2657	1.31250	1.30440	1.3125	1.2800	1.3062	1.2845	1.25800	1.26620	3B
			1.2797	1.2578	1.2768	1.2662	1.31238	1.30452	1.3130	1.2803	1.3057	1.2842	1.25812	1.26608	
1 5/16-28 or 1.3125-28	UN	2A	1.2881	1.2726	1.2840	1.2763	1.31130	1.30480	1.3125	1.2893	1.3101	1.2946	1.27400	1.28200	2B
			1.2878	1.2721	1.2843	1.2768	1.31118	1.30492	1.3130	1.2896	1.3096	1.2943	1.27412	1.28188	
		3A	1.2893	1.2738	1.2862	1.2785	1.31250	1.30600	1.3125	1.2893	1.3088	1.2933	1.27400	1.28010	3B
			1.2890	1.2733	1.2865	1.2790	1.31238	1.30612	1.3130	1.2896	1.3083	1.2930	1.27412	1.27998	
1 3/8-6 or 1.375-6	UNC	1A	1.2643	1.1921	1.2523	1.2162	1.37260	1.34530	1.3750	1.2667	1.3544	1.2822	1.19500	1.22500	1B
			1.2639	1.1913	1.2527	1.2170	1.37248	1.34542	1.3758	1.2671	1.3536	1.2818	1.19512	1.22488	
		2A	1.2643	1.1921	1.2563	1.2202	1.37260	1.35440	1.3750	1.2667	1.3493	1.2771	1.19500	1.22500	2B
			1.2639	1.1913	1.2567	1.2210	1.37248	1.35452	1.3758	1.2671	1.3485	1.2767	1.19512	1.22488	
		3A	1.2667	1.1945	1.2607	1.2246	1.37500	1.35680	1.3750	1.2667	1.3467	1.2745	1.19500	1.21460	3B
			1.2663	1.1937	1.2611	1.2254	1.37488	1.35692	1.3758	1.2671	1.3459	1.2741	1.19512	1.21448	
1 3/8-8 or 1.375-8	UN	2A	1.2916	1.2375	1.2844	1.2573	1.37280	1.35780	1.3750	1.2938	1.3572	1.3031	1.24000	1.26500	2B
			1.2912	1.2368	1.2848	1.2580	1.37268	1.35792	1.3757	1.2942	1.3565	1.3027	1.24012	1.26488	
		3A	1.2938	1.2397	1.2884	1.2613	1.37500	1.36000	1.3750	1.2938	1.3549	1.3008	1.24000	1.25470	3B
			1.2934	1.2390	1.2888	1.2620	1.37488	1.36012	1.3757	1.2942	1.3542	1.3004	1.24012	1.25458	
1 3/8-12 or 1.375-12	UNF	1A	1.3190	1.2829	1.3096	1.2916	1.37310	1.35590	1.3750	1.3209	1.3693	1.3332	1.28500	1.30300	1B
			1.3187	1.2823	1.3099	1.2922	1.37298	1.35602	1.3756	1.3212	1.3687	1.3329	1.28512	1.30288	
		2A	1.3190	1.2829	1.3127	1.2947	1.37310	1.36170	1.3750	1.3209	1.3652	1.3291	1.28500	1.30300	2B
			1.3187	1.2823	1.3130	1.2953	1.37298	1.36182	1.3756	1.3212	1.3646	1.3288	1.28512	1.30288	
		3A	1.3209	1.2848	1.3162	1.2982	1.37500	1.36360	1.3750	1.3209	1.3631	1.3270	1.28500	1.29480	3B
			1.3206	1.2842	1.3165	1.2988	1.37488	1.36372	1.3756	1.3212	1.3625	1.3267	1.28512	1.29468	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1⅜-16 or 1.375-16	UN	2A	1.3329	1.3058	1.3278	1.3143	1.37350	1.36410	1.3750	1.3344	1.3681	1.3410	1.30700	1.32100	2B
			1.3326	1.3052	1.3281	1.3149	1.37338	1.36422	1.3756	1.3347	1.3675	1.3407	1.30712	1.32088	
		3A	1.3344	1.3073	1.3306	1.3171	1.37500	1.36560	1.3750	1.3344	1.3665	1.3394	1.30700	1.31580	3B
			1.3341	1.3067	1.3309	1.3177	1.37488	1.36572	1.3756	1.3347	1.3659	1.3391	1.30712	1.31568	
1⅜-18 or 1.375-18	UNEF	2A	1.3374	1.3133	1.3325	1.3205	1.37350	1.36480	1.3750	1.3389	1.3693	1.3452	1.31500	1.32800	2B
			1.3371	1.3128	1.3328	1.3210	1.37338	1.36492	1.3755	1.3392	1.3688	1.3449	1.31512	1.32788	
		3A	1.3389	1.3148	1.3353	1.3233	1.37500	1.36630	1.3750	1.3389	1.3677	1.3436	1.31500	1.32300	3B
			1.3386	1.3143	1.3356	1.3238	1.37488	1.36642	1.3755	1.3392	1.3672	1.3433	1.31512	1.32288	
1⅜-20 or 1.375-20	UN	2A	1.3411	1.3194	1.3364	1.3256	1.37360	1.36550	1.3750	1.3425	1.3703	1.3486	1.32100	1.33200	2B
			1.3408	1.3189	1.3367	1.3261	1.37348	1.36562	1.3755	1.3428	1.3698	1.3483	1.32112	1.33188	
		3A	1.3425	1.3208	1.3390	1.3282	1.37500	1.36690	1.3750	1.3425	1.3687	1.3470	1.32100	1.32870	3B
			1.3422	1.3203	1.3393	1.3287	1.37488	1.36702	1.3755	1.3428	1.3682	1.3467	1.32112	1.32858	
1⅜-28 or 1.375-28	UN	2A	1.3506	1.3351	1.3465	1.3388	1.37380	1.36730	1.3750	1.3518	1.3726	1.3571	1.33600	1.34500	2B
			1.3503	1.3346	1.3468	1.3393	1.37368	1.36742	1.3755	1.3521	1.3721	1.3568	1.33612	1.34488	
		3A	1.3518	1.3363	1.3487	1.3410	1.37500	1.36850	1.3750	1.3518	1.3713	1.3558	1.33600	1.34260	3B
			1.3515	1.3358	1.3490	1.3415	1.37488	1.36862	1.3755	1.3521	1.3708	1.3555	1.33612	1.34248	
1⁷/₁₆-6 or 1.4375-6	UN	2A	1.3268	1.2546	1.3188	1.2827	1.43510	1.41690	1.4375	1.3292	1.4118	1.3396	1.25700	1.28800	2B
			1.3264	1.2538	1.3192	1.2835	1.43498	1.41702	1.4383	1.3296	1.4110	1.3392	1.25712	1.28788	
		3A	1.3292	1.2570	1.3232	1.2871	1.43750	1.41930	1.4375	1.3292	1.4092	1.3370	1.25700	1.27710	3B
			1.3288	1.2562	1.3236	1.2879	1.43738	1.41942	1.4383	1.3296	1.4084	1.3366	1.25712	1.27698	
1⁷/₁₆-8 or 1.4375-8	UN	2A	1.3541	1.3000	1.3469	1.3198	1.43530	1.42030	1.4375	1.3563	1.4198	1.3657	1.30200	1.32700	2B
			1.3537	1.2993	1.3473	1.3205	1.43518	1.42042	1.4382	1.3567	1.4191	1.3653	1.30212	1.32688	
		3A	1.3563	1.3022	1.3509	1.3238	1.43750	1.42250	1.4375	1.3563	1.4175	1.3634	1.30200	1.31720	3B
			1.3559	1.3015	1.3513	1.3245	1.43738	1.42262	1.4382	1.3567	1.4168	1.3630	1.30212	1.31708	
1⁷/₁₆-12 or 1.4375-12	UN	2A	1.3816	1.3455	1.3757	1.3577	1.43570	1.42430	1.4375	1.3834	1.4271	1.3910	1.34700	1.36500	2B
			1.3813	1.3449	1.3760	1.3583	1.43558	1.42442	1.4381	1.3837	1.4265	1.3907	1.34712	1.36488	
		3A	1.3834	1.3473	1.3790	1.3610	1.43750	1.42610	1.4375	1.3834	1.4252	1.3891	1.34700	1.35730	3B
			1.3831	1.3467	1.3793	1.3616	1.43738	1.42622	1.4381	1.3837	1.4246	1.3888	1.34712	1.35718	
1⁷/₁₆-16 or 1.4375-16	UN	2A	1.3953	1.3682	1.3901	1.3766	1.43590	1.42650	1.4375	1.3969	1.4308	1.4037	1.37000	1.38400	2B
			1.3950	1.3676	1.3904	1.3772	1.43578	1.42662	1.4381	1.3972	1.4302	1.4034	1.37012	1.38388	
		3A	1.3969	1.3698	1.3930	1.3795	1.43750	1.42810	1.4375	1.3969	1.4291	1.4020	1.37000	1.37830	3B
			1.3966	1.3692	1.3933	1.3801	1.43738	1.42822	1.4381	1.3972	1.4285	1.4017	1.37012	1.37818	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 7/16-18 or 1.4375-18	UNEF	2A	1.3999	1.3758	1.3949	1.3829	1.43600	1.42730	1.4375	1.4014	1.4320	1.4079	1.37700	1.39000	2B
			1.3996	1.3753	1.3952	1.3834	1.43588	1.42742	1.4380	1.4017	1.4315	1.4076	1.37712	1.38988	
		3A	1.4014	1.3773	1.3977	1.3857	1.43750	1.42880	1.4375	1.4014	1.4303	1.4062	1.37700	1.38550	3B
			1.4011	1.3768	1.3980	1.3862	1.43738	1.42892	1.4380	1.4017	1.4298	1.4059	1.37712	1.38538	
1 7/16-20 or 1.4375-20	UN	2A	1.4036	1.3819	1.3988	1.3880	1.43610	1.42800	1.4375	1.4050	1.4329	1.4112	1.38300	1.39500	2B
			1.4033	1.3814	1.3991	1.3885	1.43598	1.42812	1.4380	1.4053	1.4324	1.4109	1.38312	1.39488	
		3A	1.4050	1.3833	1.4014	1.3906	1.43750	1.42940	1.4375	1.4050	1.4313	1.4096	1.38300	1.39120	3B
			1.4047	1.3828	1.4017	1.3911	1.43738	1.42952	1.4380	1.4053	1.4308	1.4093	1.38312	1.39108	
1 7/16-28 or 1.4375-28	UN	2A	1.4130	1.3975	1.4088	1.4011	1.43620	1.42970	1.4375	1.4143	1.4353	1.4198	1.39900	1.40700	2B
			1.4127	1.3970	1.4091	1.4016	1.43608	1.42982	1.4380	1.4146	1.4348	1.4195	1.39912	1.40688	
		3A	1.4143	1.3988	1.4112	1.4035	1.43750	1.43100	1.4375	1.4143	1.4339	1.4184	1.39900	1.40510	3B
			1.4140	1.3983	1.4115	1.4040	1.43738	1.43112	1.4380	1.4146	1.4334	1.4181	1.39912	1.40498	
1 1/2-6 or 1.500-6	UNC	1A	1.3893	1.3171	1.3772	1.3411	1.49760	1.47030	1.5000	1.3917	1.4797	1.4075	1.32000	1.35000	1B
			1.3889	1.3163	1.3776	1.3419	1.49748	1.47042	1.5008	1.3921	1.4789	1.4071	1.32012	1.34988	
		2A	1.3893	1.3171	1.3812	1.3451	1.49760	1.47940	1.5000	1.3917	1.4744	1.4022	1.32000	1.35000	2B
			1.3889	1.3163	1.3816	1.3459	1.49748	1.47952	1.5008	1.3921	1.4736	1.4018	1.32012	1.34988	
		3A	1.3917	1.3195	1.3856	1.3495	1.50000	1.48180	1.5000	1.3917	1.4718	1.3996	1.32000	1.33960	3B
			1.3913	1.3187	1.3860	1.3503	1.49988	1.48192	1.5008	1.3921	1.4710	1.3992	1.32012	1.33948	
1 1/2-8 or 1.500-8	UN	2A	1.4166	1.3625	1.4093	1.3822	1.49780	1.48280	1.5000	1.4188	1.4824	1.4283	1.36500	1.39000	2B
			1.4162	1.3618	1.4097	1.3829	1.49768	1.48292	1.5007	1.4192	1.4817	1.4279	1.36512	1.38988	
		3A	1.4188	1.3647	1.4133	1.3862	1.50000	1.48500	1.5000	1.4188	1.4800	1.4259	1.36500	1.37970	3B
			1.4184	1.3640	1.4137	1.3869	1.49988	1.48512	1.5007	1.4192	1.4793	1.4255	1.36512	1.37958	
1 1/2-12 or 1.500-12	UNF	1A	1.4440	1.4079	1.4344	1.4164	1.49810	1.48090	1.5000	1.4459	1.4945	1.4584	1.41000	1.42800	1B
			1.4437	1.4073	1.4347	1.4170	1.49798	1.48102	1.5006	1.4462	1.4939	1.4581	1.41012	1.42788	
		2A	1.4440	1.4079	1.4376	1.4196	1.49810	1.48670	1.5000	1.4459	1.4903	1.4542	1.41000	1.42800	2B
			1.4437	1.4073	1.4379	1.4202	1.49798	1.48682	1.5006	1.4462	1.4897	1.4539	1.41012	1.42788	
		3A	1.4459	1.4098	1.4411	1.4231	1.50000	1.48860	1.5000	1.4459	1.4883	1.4522	1.41000	1.41980	3B
			1.4456	1.4092	1.4414	1.4237	1.49988	1.48872	1.5006	1.4462	1.4877	1.4519	1.41012	1.41968	
1 1/2-16 or 1.500-16	UN	2A	1.4578	1.4307	1.4526	1.4391	1.49840	1.48900	1.5000	1.4594	1.4933	1.4662	1.43200	1.44600	2B
			1.4575	1.4301	1.4529	1.4397	1.49828	1.48912	1.5006	1.4597	1.4927	1.4659	1.43212	1.44588	
		3A	1.4594	1.4323	1.4555	1.4420	1.50000	1.49060	1.5000	1.4594	1.4916	1.4645	1.43200	1.44080	3B
			1.4591	1.4317	1.4558	1.4426	1.49988	1.49072	1.5006	1.4597	1.4910	1.4642	1.43212	1.44068	
1 1/2-18 or 1.500-18	UNEF	2A	1.4624	1.4383	1.4574	1.4454	1.49850	1.48980	1.5000	1.4639	1.4945	1.4704	1.44000	1.45200	2B
			1.4621	1.4378	1.4577	1.4459	1.49838	1.48992	1.5005	1.4642	1.4940	1.4701	1.44012	1.45188	
		3A	1.4639	1.4398	1.4602	1.4482	1.50000	1.49130	1.5000	1.4639	1.4928	1.4687	1.44000	1.44800	3B
			1.4636	1.4393	1.4605	1.4487	1.49988	1.49142	1.5005	1.4642	1.4923	1.4684	1.44012	1.44788	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1½-20 or 1.500-20	UN	2A	1.4661	1.4444	1.4613	1.4505	1.49860	1.49050	1.5000	1.4675	1.4954	1.4737	1.44600	1.45700	2B
			1.4658	1.4439	1.4616	1.4510	1.49848	1.49062	1.5005	1.4678	1.4949	1.4734	1.44612	1.45688	
		3A	1.4675	1.4458	1.4639	1.4531	1.50000	1.49190	1.5000	1.4675	1.4938	1.4721	1.44600	1.45370	3B
			1.4672	1.4453	1.4642	1.4536	1.49988	1.49202	1.5005	1.4678	1.4933	1.4718	1.44612	1.45358	
1½-28 or 1.500-28	UN	2A	1.4755	1.4600	1.4713	1.4636	1.49870	1.49220	1.5000	1.4768	1.4978	1.4823	1.46100	1.47000	2B
			1.4752	1.4595	1.4716	1.4641	1.49858	1.49232	1.5005	1.4771	1.4973	1.4820	1.46112	1.46988	
		3A	1.4768	1.4613	1.4737	1.4660	1.50000	1.49350	1.5000	1.4768	1.4964	1.4809	1.46100	1.46760	3B
			1.4765	1.4608	1.4740	1.4665	1.49988	1.49362	1.5005	1.4771	1.4959	1.4806	1.46112	1.46748	
1 9/16-6 or 1.5625-6	UN	2A	1.4518	1.3796	1.4436	1.4075	1.56010	1.54190	1.5625	1.4542	1.5370	1.4648	1.38200	1.41300	2B
			1.4513	1.3788	1.4441	1.4083	1.55994	1.54206	1.5633	1.4547	1.5362	1.4643	1.38216	1.41284	
		3A	1.4542	1.3820	1.4481	1.4120	1.56250	1.54430	1.5625	1.4542	1.5344	1.4622	1.38200	1.40210	3B
			1.4537	1.3812	1.4486	1.4128	1.56234	1.54446	1.5633	1.4547	1.5336	1.4617	1.38216	1.40194	
1 9/16-8 or 1.5625-8	UN	2A	1.4791	1.4250	1.4717	1.4446	1.56030	1.54530	1.5625	1.4813	1.5450	1.4909	1.42700	1.45200	2B
			1.4786	1.4243	1.4722	1.4453	1.56014	1.54546	1.5632	1.4818	1.5443	1.4904	1.42716	1.45184	
		3A	1.4813	1.4272	1.4758	1.4487	1.56250	1.54750	1.5625	1.4813	1.5426	1.4885	1.42700	1.44220	3B
			1.4808	1.4265	1.4763	1.4494	1.56234	1.54766	1.5632	1.4818	1.5419	1.4880	1.42716	1.44204	
1 9/16-12 or 1.5625-12	UN	2A	1.5066	1.4705	1.5007	1.4827	1.56070	1.54930	1.5625	1.5084	1.5521	1.5160	1.47200	1.49000	2B
			1.5062	1.4699	1.5011	1.4833	1.56054	1.54946	1.5631	1.5088	1.5515	1.5156	1.47216	1.48984	
		3A	1.5084	1.4723	1.5040	1.4860	1.56250	1.55110	1.5625	1.5084	1.5502	1.5141	1.47200	1.48230	3B
			1.5080	1.4717	1.5044	1.4866	1.56234	1.55126	1.5631	1.5088	1.5496	1.5137	1.47216	1.48214	
1 9/16-16 or 1.5625-16	UN	2A	1.5203	1.4932	1.5151	1.5016	1.56090	1.55150	1.5625	1.5219	1.5558	1.5287	1.49500	1.50900	2B
			1.5199	1.4926	1.5155	1.5022	1.56074	1.55166	1.5631	1.5223	1.5552	1.5283	1.49516	1.50884	
		3A	1.5219	1.4948	1.5180	1.5045	1.56250	1.55310	1.5625	1.5219	1.5541	1.5270	1.49500	1.50330	3B
			1.5215	1.4942	1.5184	1.5051	1.56234	1.55326	1.5631	1.5223	1.5535	1.5266	1.49516	1.50314	
1 9/16-18 or 1.5625-18	UNEF	2A	1.5249	1.5008	1.5199	1.5079	1.56100	1.55230	1.5625	1.5264	1.5570	1.5329	1.50200	1.51500	2B
			1.5245	1.5003	1.5203	1.5084	1.56084	1.55246	1.5630	1.5268	1.5565	1.5325	1.50216	1.51484	
		3A	1.5264	1.5023	1.5227	1.5107	1.56250	1.55380	1.5625	1.5264	1.5553	1.5312	1.50200	1.51050	3B
			1.5260	1.5018	1.5231	1.5112	1.56234	1.55396	1.5630	1.5268	1.5548	1.5308	1.50216	1.51034	
1 9/16-20 or 1.5625-20	UN	2A	1.5286	1.5069	1.5238	1.5130	1.56110	1.55300	1.5625	1.5300	1.5579	1.5362	1.50800	1.52000	2B
			1.5282	1.5064	1.5242	1.5135	1.56094	1.55316	1.5630	1.5304	1.5574	1.5358	1.50816	1.51984	
		3A	1.5300	1.5083	1.5264	1.5156	1.56250	1.55440	1.5625	1.5300	1.5563	1.5346	1.50800	1.51620	3B
			1.5296	1.5078	1.5268	1.5161	1.56234	1.55456	1.5630	1.5304	1.5558	1.5342	1.50816	1.51604	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1⅝-6 or 1.625-6	UN	2A	1.5142	1.4420	1.5060	1.4699	1.62250	1.60430	1.6250	1.5167	1.5996	1.5274	1.44500	1.47500	2B
			1.5137	1.4412	1.5065	1.4707	1.62234	1.60446	1.6258	1.5172	1.5988	1.5269	1.44516	1.47484	
		3A	1.5167	1.4445	1.5105	1.4744	1.62500	1.60680	1.6250	1.5167	1.5969	1.5247	1.44500	1.46460	3B
			1.5162	1.4437	1.5110	1.4752	1.62484	1.60696	1.6258	1.5172	1.5961	1.5242	1.44516	1.46444	
1⅝-8 or 1.625-8	UN	2A	1.5416	1.4875	1.5342	1.5071	1.62280	1.60780	1.6250	1.5438	1.6076	1.5535	1.49000	1.51500	2B
			1.5411	1.4868	1.5347	1.5078	1.62264	1.60796	1.6257	1.5443	1.6069	1.5530	1.49016	1.51484	
		3A	1.5438	1.4897	1.5382	1.5111	1.62500	1.61000	1.6250	1.5438	1.6051	1.5510	1.49000	1.50470	3B
			1.5433	1.4890	1.5387	1.5118	1.62484	1.61016	1.6257	1.5443	1.6044	1.5505	1.49016	1.50454	
1⅝-12 or 1.625-12	UN	2A	1.5691	1.5330	1.5632	1.5452	1.62320	1.61180	1.6250	1.5709	1.6146	1.5785	1.53500	1.55300	2B
			1.5687	1.5324	1.5636	1.5458	1.62304	1.61196	1.6256	1.5713	1.6140	1.5781	1.53516	1.55284	
		3A	1.5709	1.5348	1.5665	1.5485	1.62500	1.61360	1.6250	1.5709	1.6127	1.5766	1.53500	1.54480	3B
			1.5705	1.5342	1.5669	1.5491	1.62484	1.61376	1.6256	1.5713	1.6121	1.5762	1.53516	1.54464	
1⅝-16 or 1.625-16	UN	2A	1.5828	1.5557	1.5776	1.5641	1.62340	1.61400	1.6250	1.5844	1.6183	1.5912	1.55700	1.57100	2B
			1.5824	1.5551	1.5780	1.5647	1.62324	1.61416	1.6256	1.5848	1.6177	1.5908	1.55716	1.57084	
		3A	1.5844	1.5573	1.5805	1.5670	1.62500	1.61560	1.6250	1.5844	1.6166	1.5895	1.55700	1.56580	3B
			1.5840	1.5567	1.5809	1.5676	1.62484	1.61576	1.6256	1.5848	1.6160	1.5891	1.55716	1.56564	
1⅝-18 or 1.625-18	UNEF	2A	1.5874	1.5633	1.5824	1.5704	1.62350	1.61480	1.6250	1.5889	1.6195	1.5954	1.56500	1.57800	2B
			1.5870	1.5628	1.5828	1.5709	1.62334	1.61496	1.6255	1.5893	1.6190	1.5950	1.56516	1.57784	
		3A	1.5889	1.5648	1.5852	1.5732	1.62500	1.61630	1.6250	1.5889	1.6178	1.5937	1.56500	1.57300	3B
			1.5885	1.5643	1.5856	1.5737	1.62484	1.61646	1.6255	1.5893	1.6173	1.5933	1.56516	1.57284	
1⅝-20 or 1.625-20	UN	2A	1.5911	1.5694	1.5863	1.5755	1.62360	1.61550	1.6250	1.5925	1.6204	1.5987	1.57100	1.58200	2B
			1.5907	1.5689	1.5867	1.5760	1.62344	1.61566	1.6255	1.5929	1.6199	1.5983	1.57116	1.58184	
		3A	1.5925	1.5708	1.5889	1.5781	1.62500	1.61690	1.6250	1.5925	1.6188	1.5971	1.57100	1.57870	3B
			1.5921	1.5703	1.5893	1.5786	1.62484	1.61706	1.6255	1.5929	1.6183	1.5967	1.57116	1.57854	
1 11/16-6 or 1.6875-6	UN	2A	1.5767	1.5045	1.5684	1.5323	1.68500	1.66680	1.6875	1.5792	1.6622	1.5900	1.50700	1.53800	2B
			1.5762	1.5037	1.5689	1.5331	1.68484	1.66696	1.6883	1.5797	1.6614	1.5895	1.50716	1.53784	
		3A	1.5792	1.5070	1.5730	1.5369	1.68750	1.66930	1.6875	1.5792	1.6595	1.5873	1.50700	1.52710	3B
			1.5787	1.5062	1.5735	1.5377	1.68734	1.66946	1.6883	1.5797	1.6587	1.5868	1.50716	1.52694	
1 11/16-8 or 1.6875-8	UN	2A	1.6041	1.5500	1.5966	1.5695	1.68530	1.67030	1.6875	1.6063	1.6701	1.6160	1.55200	1.57700	2B
			1.6036	1.5493	1.5971	1.5702	1.68514	1.67046	1.6882	1.6068	1.6694	1.6155	1.55216	1.57684	
		3A	1.6063	1.5522	1.6007	1.5736	1.68750	1.67250	1.6875	1.6063	1.6677	1.6136	1.55200	1.56720	3B
			1.6058	1.5515	1.6012	1.5743	1.68734	1.67266	1.6882	1.6068	1.6670	1.6131	1.55216	1.56704	
1 11/16-12 or 1.6875-12	UN	2A	1.6316	1.5955	1.6256	1.6076	1.68570	1.67430	1.6875	1.6334	1.6773	1.6412	1.59700	1.61500	2B
			1.6312	1.5949	1.6260	1.6082	1.68554	1.67446	1.6881	1.6338	1.6767	1.6408	1.59716	1.61484	
		3A	1.6334	1.5973	1.6289	1.6109	1.68750	1.67610	1.6875	1.6334	1.6753	1.6392	1.59700	1.60730	3B
			1.6330	1.5967	1.6293	1.6115	1.68734	1.67626	1.6881	1.6338	1.6747	1.6388	1.59716	1.60714	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 1/16-16 or 1.6875-16	UN	2A	1.6453	1.6182	1.6400	1.6265	1.68590	1.67650	1.6875	1.6469	1.6809	1.6538	1.62000	1.63400	2B
			1.6449	1.6176	1.6404	1.6271	1.68574	1.67666	1.6881	1.6473	1.6803	1.6534	1.62016	1.63384	
		3A	1.6469	1.6198	1.6429	1.6294	1.68750	1.67810	1.6875	1.6469	1.6792	1.6521	1.62000	1.62830	3B
			1.6465	1.6192	1.6433	1.6300	1.68734	1.67826	1.6881	1.6473	1.6786	1.6517	1.62016	1.62814	
1 1/16-18 or 1.6875-18	UNEF	2A	1.6499	1.6258	1.6448	1.6328	1.68600	1.67730	1.6875	1.6514	1.6821	1.6580	1.62700	1.64000	2B
			1.6495	1.6253	1.6452	1.6333	1.68584	1.67746	1.6880	1.6518	1.6816	1.6576	1.62716	1.63984	
		3A	1.6514	1.6273	1.6476	1.6356	1.68750	1.67880	1.6875	1.6514	1.6804	1.6563	1.62700	1.63550	3B
			1.6510	1.6268	1.6480	1.6361	1.68734	1.67896	1.6880	1.6518	1.6799	1.6559	1.62716	1.63534	
1 1/16-20 or 1.6875-20	UN	2A	1.6535	1.6318	1.6487	1.6379	1.68600	1.67790	1.6875	1.6550	1.6830	1.6613	1.63300	1.64500	2B
			1.6531	1.6313	1.6491	1.6384	1.68584	1.67806	1.6880	1.6554	1.6825	1.6609	1.63316	1.64484	
		3A	1.6550	1.6333	1.6514	1.6406	1.68750	1.67940	1.6875	1.6550	1.6814	1.6597	1.63300	1.64120	3B
			1.6546	1.6328	1.6518	1.6411	1.68734	1.67956	1.6880	1.6554	1.6809	1.6593	1.63316	1.64104	
1 3/4-5 or 1.750-5	UNC	1A	1.6174	1.5308	1.6040	1.5607	1.74730	1.71650	1.7500	1.6201	1.7241	1.6375	1.53400	1.56800	1B
			1.6169	1.5300	1.6045	1.5615	1.74714	1.71666	1.7508	1.6206	1.7233	1.6370	1.53416	1.56784	
		2A	1.6174	1.5308	1.6085	1.5652	1.74730	1.72680	1.7500	1.6201	1.7183	1.6317	1.53400	1.56800	2B
			1.6169	1.5300	1.6090	1.5660	1.74714	1.72696	1.7508	1.6206	1.7175	1.6312	1.53416	1.56784	
		3A	1.6201	1.5335	1.6134	1.5701	1.75000	1.72950	1.7500	1.6201	1.7154	1.6288	1.53400	1.55750	3B
			1.6196	1.5327	1.6139	1.5709	1.74984	1.72966	1.7508	1.6206	1.7146	1.6283	1.53416	1.55734	
1 3/4-6 or 1.750-6	UN	2A	1.6392	1.5670	1.6309	1.5948	1.74750	1.72930	1.7500	1.6417	1.7247	1.6525	1.57000	1.60000	2B
			1.6387	1.5662	1.6314	1.5956	1.74734	1.72946	1.7508	1.6422	1.7239	1.6520	1.57016	1.59984	
		3A	1.6417	1.5695	1.6354	1.5993	1.75000	1.73180	1.7500	1.6417	1.7220	1.6498	1.57000	1.58960	3B
			1.6412	1.5687	1.6359	1.6001	1.74984	1.73196	1.7508	1.6422	1.7212	1.6493	1.57016	1.58944	
1 3/4-8 or 1.750-8	UN	2A	1.6665	1.6124	1.6590	1.6319	1.74770	1.73270	1.7500	1.6688	1.7327	1.6786	1.61500	1.64000	2B
			1.6660	1.6117	1.6595	1.6326	1.74754	1.73286	1.7507	1.6693	1.7320	1.6781	1.61516	1.63984	
		3A	1.6688	1.6147	1.6631	1.6360	1.75000	1.73500	1.7500	1.6688	1.7303	1.6762	1.61500	1.62970	3B
			1.6683	1.6140	1.6636	1.6367	1.74984	1.73516	1.7507	1.6693	1.7296	1.6757	1.61516	1.62954	
1 3/4-12 or 1.750-12	UN	2A	1.6941	1.6580	1.6881	1.6701	1.74820	1.73680	1.7500	1.6959	1.7398	1.7037	1.66000	1.67800	2B
			1.6937	1.6574	1.6885	1.6707	1.74804	1.73696	1.7506	1.6963	1.7392	1.7033	1.66016	1.67784	
		3A	1.6959	1.6598	1.6914	1.6734	1.75000	1.73860	1.7500	1.6959	1.7378	1.7017	1.66000	1.66980	3B
			1.6955	1.6592	1.6918	1.6740	1.74984	1.73876	1.7506	1.6963	1.7372	1.7013	1.66016	1.66964	
1 3/4-16 or 1.750-16	UN	2A	1.7078	1.6807	1.7025	1.6890	1.74840	1.73900	1.7500	1.7094	1.7434	1.7163	1.68200	1.69600	2B
			1.7074	1.6801	1.7029	1.6896	1.74824	1.73916	1.7506	1.7098	1.7428	1.7159	1.68216	1.69584	
		3A	1.7094	1.6823	1.7054	1.6919	1.75000	1.74060	1.7500	1.7094	1.7417	1.7146	1.68200	1.69080	3B
			1.7090	1.6817	1.7058	1.6925	1.74984	1.74076	1.7506	1.7098	1.7411	1.7142	1.68216	1.69064	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1¾-20 or 1.750-20	UN	2A	1.7160	1.6943	1.7112	1.7004	1.74850	1.74040	1.7500	1.7175	1.7455	1.7238	1.69600	1.70700	2B
			1.7156	1.6938	1.7116	1.7009	1.74834	1.74056	1.7505	1.7179	1.7450	1.7234	1.69616	1.70684	
		3A	1.7175	1.6958	1.7139	1.7031	1.75000	1.74190	1.7500	1.7175	1.7439	1.7222	1.69600	1.70370	3B
			1.7171	1.6953	1.7143	1.7036	1.74984	1.74206	1.7505	1.7179	1.7434	1.7218	1.69616	1.70354	
1 13/16-6 or 1.8125-6	UN	2A	1.7017	1.6295	1.6933	1.6572	1.81000	1.79180	1.8125	1.7042	1.7873	1.7151	1.63200	1.66300	2B
			1.7012	1.6287	1.6938	1.6580	1.80984	1.79196	1.8133	1.7047	1.7865	1.7146	1.63216	1.66284	
		3A	1.7042	1.6320	1.6979	1.6618	1.81250	1.79430	1.8125	1.7042	1.7846	1.7124	1.63200	1.65210	3B
			1.7037	1.6312	1.6984	1.6626	1.81234	1.79446	1.8133	1.7047	1.7838	1.7119	1.63216	1.65194	
1 13/16-8 or 1.8125-8	UN	2A	1.7290	1.6749	1.7214	1.6943	1.81020	1.79520	1.8125	1.7313	1.7953	1.7412	1.67700	1.70200	2B
			1.7285	1.6742	1.7219	1.6950	1.81004	1.79536	1.8132	1.7318	1.7946	1.7407	1.67716	1.70184	
		3A	1.7313	1.6772	1.7256	1.6985	1.81250	1.79750	1.8125	1.7313	1.7928	1.7387	1.67700	1.69220	3B
			1.7308	1.6765	1.7261	1.6992	1.81234	1.79766	1.8132	1.7318	1.7921	1.7382	1.67716	1.69204	
1 13/16-12 or 1.8125-12	UN	2A	1.7566	1.7205	1.7506	1.7326	1.81070	1.79930	1.8125	1.7584	1.8023	1.7662	1.72200	1.74000	2B
			1.7562	1.7199	1.7510	1.7332	1.81054	1.79946	1.8131	1.7588	1.8017	1.7658	1.72216	1.73984	
		3A	1.7584	1.7223	1.7539	1.7359	1.81250	1.80110	1.8125	1.7584	1.8003	1.7642	1.72200	1.73230	3B
			1.7580	1.7217	1.7543	1.7365	1.81234	1.80126	1.8131	1.7588	1.7997	1.7638	1.72216	1.73214	
1 13/16-16 or 1.8125-16	UN	2A	1.7703	1.7432	1.7650	1.7515	1.81090	1.80150	1.8125	1.7719	1.8059	1.7788	1.74500	1.75900	2B
			1.7699	1.7426	1.7654	1.7521	1.81074	1.80166	1.8131	1.7723	1.8053	1.7784	1.74516	1.75884	
		3A	1.7719	1.7448	1.7679	1.7544	1.81250	1.80310	1.8125	1.7719	1.8042	1.7771	1.74500	1.75330	3B
			1.7715	1.7442	1.7683	1.7550	1.81234	1.80326	1.8131	1.7723	1.8036	1.7767	1.74516	1.75314	
1 13/16-20 or 1.8125-20	UN	2A	1.7785	1.7568	1.7737	1.7629	1.81100	1.80290	1.8125	1.7800	1.8080	1.7863	1.75800	1.77000	2B
			1.7781	1.7563	1.7741	1.7634	1.81084	1.80306	1.8130	1.7804	1.8075	1.7859	1.75816	1.76984	
		3A	1.7800	1.7583	1.7764	1.7656	1.81250	1.80440	1.8125	1.7800	1.8064	1.7847	1.75800	1.76620	3B
			1.7796	1.7578	1.7768	1.7661	1.81234	1.80456	1.8130	1.7804	1.8059	1.7843	1.75816	1.76604	
1 7/8-6 or 1.875-6	UN	2A	1.7642	1.6920	1.7558	1.7197	1.87250	1.85430	1.8750	1.7667	1.8499	1.7777	1.69500	1.72500	2B
			1.7637	1.6912	1.7563	1.7205	1.87234	1.85446	1.8758	1.7672	1.8491	1.7772	1.69516	1.72484	
		3A	1.7667	1.6945	1.7604	1.7243	1.87500	1.85680	1.8750	1.7667	1.8471	1.7749	1.69500	1.71460	3B
			1.7662	1.6937	1.7609	1.7251	1.87484	1.85696	1.8758	1.7672	1.8463	1.7744	1.69516	1.71444	
1 7/8-8 or 1.875-8	UN	2A	1.7915	1.7374	1.7838	1.7567	1.87270	1.85770	1.8750	1.7938	1.8579	1.8038	1.74000	1.76500	2B
			1.7910	1.7367	1.7843	1.7574	1.87254	1.85786	1.8757	1.7943	1.8572	1.8033	1.74016	1.76484	
		3A	1.7938	1.7397	1.7881	1.7610	1.87500	1.86000	1.8750	1.7938	1.8554	1.8013	1.74000	1.75470	3B
			1.7933	1.7390	1.7886	1.7617	1.87484	1.86016	1.8757	1.7943	1.8547	1.8008	1.74016	1.75454	
1 7/8-12 or 1.875-12	UN	2A	1.8191	1.7830	1.8131	1.7951	1.87320	1.86180	1.8750	1.8209	1.8648	1.8287	1.78500	1.80300	2B
			1.8187	1.7824	1.8135	1.7957	1.87304	1.86196	1.8756	1.8213	1.8642	1.8283	1.78516	1.80284	
		3A	1.8209	1.7848	1.8164	1.7984	1.87500	1.86360	1.8750	1.8209	1.8628	1.8267	1.78500	1.79480	3B
			1.8205	1.7842	1.8168	1.7990	1.87484	1.86376	1.8756	1.8213	1.8622	1.8263	1.78516	1.79464	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1⅞-16 or 1.875-16	UN	2A	1.8328	1.8057	1.8275	1.8140	1.87340	1.86400	1.8750	1.8344	1.8684	1.8413	1.80700	1.82100	2B
			1.8324	1.8051	1.8279	1.8146	1.87324	1.86416	1.8756	1.8348	1.8678	1.8409	1.80716	1.82084	
		3A	1.8344	1.8073	1.8304	1.8169	1.87500	1.86560	1.8750	1.8344	1.8667	1.8396	1.80700	1.81580	3B
			1.8340	1.8067	1.8308	1.8175	1.87484	1.86576	1.8756	1.8348	1.8661	1.8392	1.80716	1.81564	
1⅞-20 or 1.875-20	UN	2A	1.8410	1.8193	1.8362	1.8254	1.87350	1.86540	1.8750	1.8425	1.8705	1.8488	1.82100	1.83200	2B
			1.8406	1.8188	1.8366	1.8259	1.87334	1.86556	1.8755	1.8429	1.8700	1.8484	1.82116	1.83184	
		3A	1.8425	1.8208	1.8389	1.8281	1.87500	1.86690	1.8750	1.8425	1.8689	1.8472	1.82100	1.82870	3B
			1.8421	1.8203	1.8393	1.8286	1.87484	1.86706	1.8755	1.8429	1.8684	1.8468	1.82116	1.82854	
1 15/16-6 or 1.9375-6	UN	2A	1.8266	1.7544	1.8181	1.7820	1.93490	1.91670	1.9375	1.8292	1.9125	1.8403	1.75700	1.78800	2B
			1.8261	1.7536	1.8186	1.7828	1.93474	1.91686	1.9383	1.8297	1.9117	1.8398	1.75716	1.78784	
		3A	1.8292	1.7570	1.8228	1.7867	1.93750	1.91930	1.9375	1.8292	1.9097	1.8375	1.75700	1.77710	3B
			1.8287	1.7562	1.8233	1.7875	1.93734	1.91946	1.9383	1.8297	1.9089	1.8370	1.75716	1.77694	
1 15/16-8 or 1.9375-8	UN	2A	1.8540	1.7999	1.8463	1.8192	1.93520	1.92020	1.9375	1.8563	1.9204	1.8663	1.80200	1.82700	2B
			1.8535	1.7992	1.8468	1.9199	1.93504	1.92036	1.9382	1.8568	1.9197	1.8658	1.80216	1.82684	
		3A	1.8563	1.8022	1.8505	1.8234	1.93750	1.92250	1.9375	1.8563	1.9179	1.8638	1.80200	1.81720	3B
			1.8558	1.8015	1.8510	1.8241	1.93734	1.92266	1.9382	1.8568	1.9172	1.8633	1.80216	1.81704	
1 15/16-12 or 1.9375-12	UN	2A	1.8816	1.8455	1.8755	1.8575	1.93570	1.92430	1.9375	1.8834	1.9274	1.8913	1.84700	1.86500	2B
			1.8812	1.8449	1.8759	1.8581	1.93554	1.92446	1.9381	1.8838	1.9268	1.8909	1.84716	1.86484	
		3A	1.8834	1.8473	1.8789	1.8609	1.93750	1.92610	1.9375	1.8834	1.9254	1.8893	1.84700	1.85730	3B
			1.8830	1.8467	1.8793	1.8615	1.93734	1.92626	1.9381	1.8838	1.9248	1.8889	1.84716	1.85714	
1 15/16-16 or 1.9375-16	UN	2A	1.8953	1.8682	1.8899	1.8764	1.93590	1.92650	1.9375	1.8969	1.9310	1.9039	1.87000	1.88400	2B
			1.8949	1.8676	1.8903	1.8770	1.93574	1.92666	1.9381	1.8973	1.9304	1.9035	1.87016	1.88384	
		3A	1.8969	1.8698	1.8929	1.8794	1.93750	1.92810	1.9375	1.8969	1.9292	1.9021	1.87000	1.87830	3B
			1.8965	1.8692	1.8933	1.8800	1.93734	1.92826	1.9381	1.8973	1.9286	1.9017	1.87016	1.87814	
1 15/16-20 or 1.9375-20	UN	2A	1.9035	1.8818	1.8986	1.8878	1.93600	1.92790	1.9375	1.9050	1.9331	1.9114	1.88300	1.89500	2B
			1.9031	1.8813	1.8990	1.8883	1.93584	1.92806	1.9380	1.9054	1.9326	1.9110	1.88316	1.89484	
		3A	1.9050	1.8833	1.9013	1.8905	1.93750	1.92940	1.9375	1.9050	1.9315	1.9098	1.88300	1.89120	3B
			1.9046	1.8828	1.9017	1.8910	1.93734	1.92956	1.9380	1.9054	1.9310	1.9094	1.88316	1.89104	
2-4½ or 2.000-4.5	UNC	1A	1.8528	1.7566	1.8385	1.7904	1.99710	1.96410	2.0000	1.8557	1.9705	1.8743	1.75900	1.79500	1B
			1.8523	1.7558	1.8390	1.7912	1.99694	1.96426	2.0008	1.8562	1.9697	1.8738	1.75916	1.79484	
		2A	1.8528	1.7566	1.8433	1.7952	1.99710	1.97510	2.0000	1.8557	1.9643	1.8681	1.75900	1.78500	2B
			1.8523	1.7558	1.8438	1.7960	1.99694	1.97526	2.0008	1.8562	1.9635	1.8676	1.75916	1.79484	
		3A	1.8557	1.7595	1.8486	1.8005	2.00000	1.97800	2.0000	1.8557	1.9612	1.8650	1.75900	1.78610	3B
			1.8552	1.7587	1.8491	1.8013	1.99984	1.97816	2.0008	1.8562	1.9604	1.8645	1.75916	1.78594	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2-6 or 2.000-6	UN	2A	1.8891	1.8169	1.8805	1.8444	1.99740	1.97920	2.0000	1.8917	1.9750	1.9028	1.82000	1.85000	2B
			1.8886	1.8161	1.8810	1.8452	1.99724	1.97936	2.0008	1.8922	1.9742	1.9023	1.82016	1.84984	
		3A	1.8917	1.8195	1.8853	1.8492	2.00000	1.98180	2.0000	1.8917	1.9722	1.9000	1.82000	1.83960	3B
			1.8912	1.8187	1.8858	1.8500	1.99984	1.98196	2.0008	1.8922	1.9714	1.8995	1.82016	1.83944	
2-8 or 2.000-8	UN	2A	1.9165	1.8624	1.9087	1.8816	1.99770	1.98270	2.0000	1.9188	1.9830	1.9289	1.86500	1.89000	2B
			1.9160	1.8617	1.9092	1.8823	1.99754	1.98286	2.0007	1.9193	1.9823	1.9284	1.86516	1.88984	
		3A	1.9188	1.8647	1.9130	1.8859	2.00000	1.98500	2.0000	1.9188	1.9805	1.9264	1.86500	1.87970	3B
			1.9183	1.8640	1.9135	1.8866	1.99984	1.98516	2.0007	1.9193	1.9798	1.9259	1.86516	1.87954	
2-12 or 2.000-12	UN	2A	1.9441	1.9080	1.9380	1.9200	1.99820	1.98680	2.0000	1.9459	1.9899	1.9538	1.91000	1.92800	2B
			1.9437	1.9074	1.9384	1.9206	1.99804	1.98696	2.0006	1.9463	1.9893	1.9534	1.91016	1.92784	
		3A	1.9459	1.9098	1.9414	1.9234	2.00000	1.98860	2.0000	1.9459	1.9879	1.9518	1.91000	1.91980	3B
			1.9455	1.9092	1.9418	1.9240	1.99984	1.98876	2.0006	1.9463	1.9873	1.9514	1.91016	1.91964	
2-16 or 2.000-16	UN	2A	1.9578	1.9307	1.9524	1.9389	1.99840	1.98900	2.0000	1.9594	1.9935	1.9664	1.93200	1.94600	2B
			1.9574	1.9301	1.9528	1.9395	1.99824	1.98916	2.0006	1.9598	1.9929	1.9660	1.93216	1.94584	
		3A	1.9594	1.9323	1.9554	1.9419	2.00000	1.99060	2.0000	1.9594	1.9917	1.9646	1.93200	1.94080	3B
			1.9590	1.9317	1.9558	1.9425	1.99984	1.99076	2.0006	1.9598	1.9911	1.9642	1.93216	1.94064	
2-20 or 2.000-20	UN	2A	1.9660	1.9443	1.9611	1.9503	1.99850	1.99040	2.0000	1.9675	1.9956	1.9739	1.94600	1.95700	2B
			1.9656	1.9438	1.9615	1.9508	1.99834	1.99056	2.0005	1.9679	1.9951	1.9735	1.94616	1.95684	
		3A	1.9675	1.9458	1.9638	1.9530	2.00000	1.99190	2.0000	1.9675	1.9940	1.9723	1.94600	1.95370	3B
			1.9671	1.9453	1.9642	1.9535	1.99984	1.99206	2.0005	1.9679	1.9935	1.9719	1.94616	1.95354	
2⅛-6 or 2.125-6	UN	2A	2.0141	1.9419	2.0054	1.9693	2.12240	2.10420	2.1250	2.0167	2.1002	2.0280	1.94500	1.97500	2B
			2.0136	1.9411	2.0059	1.9701	2.12224	2.10436	2.1258	2.0172	2.0994	2.0275	1.94516	1.97484	
		3A	2.0167	1.9445	2.0102	1.9741	2.12500	2.10680	2.1250	2.0167	2.0973	2.0251	1.94500	1.96460	3B
			2.0162	1.9437	2.0107	1.9749	2.12484	2.10696	2.1258	2.0172	2.0965	2.0246	1.94516	1.96444	
2⅛-8 or 2.125-8	UN	2A	2.0414	1.9873	2.0335	2.0064	2.12260	2.10760	2.1250	2.0438	2.1081	2.0540	1.99000	2.01500	2B
			2.0409	1.9866	2.0340	2.0071	2.12244	2.10776	2.1257	2.0443	2.1074	2.0535	1.99016	2.01484	
		3A	2.0438	1.9897	2.0379	2.0108	2.12500	2.11000	2.1250	2.0438	2.1056	2.0515	1.99000	2.00470	3B
			2.0433	1.9890	2.0384	2.0115	2.12484	2.11016	2.1257	2.0443	2.1049	2.0510	1.99016	2.00454	
2⅛-12 or 2.125-12	UN	2A	2.0691	2.0330	2.0630	2.0450	2.12320	2.11180	2.1250	2.0709	2.1149	2.0788	2.03500	2.05300	2B
			2.0687	2.0324	2.0634	2.0456	2.12304	2.11196	2.1256	2.0713	2.1143	2.0784	2.03516	2.05284	
		3A	2.0709	2.0348	2.0664	2.0484	2.12500	2.11360	2.1250	2.0709	2.1129	2.0768	2.03500	2.04480	3B
			2.0705	2.0342	2.0668	2.0490	2.12484	2.11376	2.1256	2.0713	2.1123	2.0764	2.03516	2.04464	
2⅛-16 or 2.125-16	UN	2A	2.0828	2.0557	2.0774	2.0639	2.12340	2.11400	2.1250	2.0844	2.1185	2.0914	2.05700	2.07100	2B
			2.0824	2.0551	2.0778	2.0645	2.12324	2.11416	2.1256	2.0848	2.1179	2.0910	2.05716	2.07084	
		3A	2.0844	2.0573	2.0804	2.0669	2.12500	2.11560	2.1250	2.0844	2.1167	2.0896	2.05700	2.06580	3B
			2.0840	2.0567	2.0808	2.0675	2.12484	2.11576	2.1256	2.0848	2.1161	2.0892	2.05716	2.06564	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2⅛-20 or 2.125-20	UN	2A	2.0910	2.0693	2.0861	2.0753	2.12350	2.11540	2.1250	2.0925	2.1206	2.0989	2.07100	2.08200	2B
			2.0906	2.0688	2.0865	2.0758	2.12334	2.11556	2.1255	2.0929	2.1201	2.0985	2.07116	2.08184	
		3A	2.0925	2.0708	2.0888	2.0780	2.12500	2.11690	2.1250	2.0925	2.1190	2.0973	2.07100	2.07870	3B
			2.0921	2.0703	2.0892	2.0785	2.12484	2.11706	2.1255	2.0929	2.1185	2.0969	2.07116	2.07854	
2¼-4½ or 2.250-4.5	UNC	1A	2.1028	2.0066	2.0882	2.0401	2.24710	2.21410	2.2500	2.1057	2.2209	2.1247	2.00900	2.04500	1B
			2.1023	2.0058	2.0887	2.0409	2.24694	2.21426	2.2508	2.1062	2.2201	2.1242	2.00916	2.04484	
		2A	2.1028	2.0066	2.0931	2.0450	2.44710	2.22510	2.2500	2.1057	2.2145	2.1183	2.00900	2.04500	2B
			2.1023	2.0058	2.0936	2.0458	2.24694	2.22526	2.2508	2.1062	2.2137	2.1178	2.00916	2.04484	
		3A	2.1057	2.0095	2.0984	2.0503	2.25040	2.22800	2.2500	2.1057	2.2114	2.1152	2.00900	2.03610	3B
			2.1052	2.0087	2.0989	2.0511	2.24984	2.22816	2.2508	2.1062	2.2106	2.1147	2.00916	2.03594	
2¼-6 or 2.250-6	UN	2A	2.1391	2.0669	2.1303	2.0942	2.24740	2.22920	2.2500	2.1417	2.2253	2.1531	2.07000	2.10000	2B
			2.1386	2.0661	2.1308	2.0950	2.24724	2.22936	2.2508	2.1422	2.2245	2.1526	2.07016	2.09984	
		3A	2.1417	2.0695	2.1351	2.0990	2.25000	2.23180	2.2500	2.1417	2.2224	2.1502	2.07000	2.08960	3B
			2.1412	2.0687	2.1356	2.0998	2.24984	2.23196	2.2508	2.1422	2.2216	2.1497	2.07016	2.08944	
2¼-8 or 2.250-8	UN	2A	2.1664	2.1123	2.1584	2.1313	2.24760	2.23260	2.2500	2.1688	2.2333	2.1792	2.11500	2.14000	2B
			2.1659	2.1116	2.1589	2.1320	2.24744	2.23276	2.2507	2.1693	2.2326	2.1787	2.11516	2.13984	
		3A	2.1688	2.1147	2.1628	2.1357	2.25000	2.23500	2.2500	2.1688	2.2307	2.1766	2.11500	2.12970	3B
			2.1683	2.1140	2.1633	2.1364	2.24984	2.23516	2.2507	2.1693	2.2300	2.1761	2.11516	2.12954	
2¼-12 or 2.250-12	UN	2A	2.1941	2.1580	2.1880	2.1700	2.24820	2.23680	2.2500	2.1959	2.2399	2.2038	2.16000	2.17800	2B
			2.1937	2.1574	2.1884	2.1706	2.24804	2.23696	2.2506	2.1963	2.2393	2.2034	2.16016	2.17784	
		3A	2.1959	2.1598	2.1914	2.1734	2.25000	2.23860	2.2500	2.1959	2.2379	2.2018	2.16000	2.16980	3B
			2.1955	2.1592	2.1918	2.1740	2.24984	2.23876	2.2506	2.1963	2.2373	2.2014	2.16016	2.16964	
2¼-16 or 2.250-16	UN	2A	2.2078	2.1807	2.2024	2.1889	2.24840	2.23900	2.2500	2.2094	2.2435	2.2164	2.18200	2.19600	2B
			2.2074	2.1801	2.2028	2.1895	2.24824	2.23916	2.2506	2.2098	2.2429	2.2160	2.18216	2.19584	
		3A	2.2094	2.1823	2.2054	2.1919	2.25000	2.24060	2.2500	2.2094	2.2417	2.2146	2.18200	2.19080	3B
			2.2090	2.1817	2.2058	2.1925	2.24984	2.24076	2.2506	2.2098	2.2411	2.2142	2.18216	2.19064	
2¼-20 or 2.250-20	UN	2A	2.2160	2.1943	2.2111	2.2003	2.24850	2.24040	2.2500	2.2175	2.2456	2.2239	2.19600	2.20700	2B
			2.2156	2.1938	2.2115	2.2008	2.24834	2.24056	2.2505	2.2179	2.2451	2.2235	2.19616	2.20684	
		3A	2.2175	2.1958	2.2138	2.2030	2.25000	2.24190	2.2500	2.2175	2.2440	2.2223	2.19600	2.20370	3B
			2.2171	2.1953	2.2142	2.2035	2.24984	2.24206	2.2505	2.2179	2.2435	2.2219	2.19616	2.20354	
2⅜-6 or 2.375-6	UN	2A	2.2640	2.1918	2.2551	2.2190	2.37230	2.35410	2.3750	2.2667	2.3504	2.2782	2.19500	2.22600	2B
			2.2635	2.1910	2.2556	2.2198	2.37214	2.35426	2.3758	2.2672	2.3496	2.2777	2.19516	2.22584	
		3A	2.2667	2.1945	2.2601	2.2240	2.37500	2.35680	2.3750	2.2667	2.3475	2.2753	2.19500	2.21460	3B
			2.2662	2.1937	2.2606	2.2248	2.37484	2.35696	2.3758	2.2672	2.3467	2.2748	2.19516	2.21444	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2⅜-8 or 2.375-8	UN	2A	2.2914	2.2373	2.2833	2.2562	2.37260	2.35760	2.3750	2.2938	2.3584	2.3043	2.24000	2.26500	2B
			2.2909	2.2366	2.2838	2.2569	2.37244	2.35776	2.3757	2.2943	2.3577	2.3038	2.24016	2.26484	
		3A	2.2938	2.2397	2.2878	2.2607	2.37500	2.36000	2.3750	2.2938	2.3558	2.3017	2.24000	2.25470	3B
			2.2933	2.2390	2.2883	2.2614	2.37484	2.36016	2.3757	2.2943	2.3551	2.3012	2.24016	2.25454	
2⅜-12 or 2.375-12	UN	2A	2.3190	2.2829	2.3128	2.2948	2.37310	2.36170	2.3750	2.3209	2.3651	2.3290	2.28500	2.30300	2B
			2.3186	2.2823	2.3132	2.2954	2.37294	2.36186	2.3756	2.3213	2.3645	2.3286	2.28516	2.30284	
		3A	2.3209	2.2848	2.3163	2.2983	2.37500	2.36360	2.3750	2.3209	2.3630	2.3269	2.28500	2.29480	3B
			2.3205	2.2842	2.3167	2.2989	2.37484	2.36376	2.3756	2.3213	2.3624	2.3265	2.28516	2.29464	
2⅜-16 or 2.375-16	UN	2A	2.3327	2.3056	2.3272	2.3137	2.37330	2.36390	2.3750	2.3344	2.3687	2.3416	2.30700	2.32100	2B
			2.3323	2.3050	2.3276	2.3143	2.37314	2.36406	2.3756	2.3348	2.3681	2.3412	2.30716	2.32084	
		3A	2.3344	2.3073	2.3303	2.3168	2.37500	2.36560	2.3750	2.3344	2.3669	2.3398	2.30700	2.31580	3B
			2.3340	2.3067	2.3307	2.3174	2.37484	2.36576	2.3756	2.3348	2.3663	2.3394	2.30716	2.31564	
2⅜-20 or 2.375-20	UN	2A	2.3410	2.3193	2.3359	2.3251	2.37350	2.36540	2.3750	2.3425	2.3708	2.3491	2.32100	2.33200	2B
			2.3406	2.3188	2.3363	2.3256	2.37334	2.36556	2.3755	2.3429	2.3703	2.3487	2.32116	2.33184	
		3A	2.3425	2.3208	2.3387	2.3279	2.37500	2.36690	2.3750	2.3425	2.3692	2.3475	2.32100	2.32870	3B
			2.3421	2.3203	2.3391	2.3284	2.37484	2.36706	2.3755	2.3429	2.3687	2.3471	2.32116	2.32854	
2½-4 or 2.500-4	UNC	1A	2.3345	2.2262	2.3190	2.2649	2.49690	2.46120	2.5000	2.3376	2.4661	2.3578	2.22900	2.26700	1B
			2.3340	2.2253	2.3195	2.2658	2.49674	2.46136	2.5009	2.3381	2.4652	2.3573	2.22916	2.26684	
		2A	2.3345	2.2262	2.3241	2.2700	2.49690	2.47310	2.5000	2.3376	2.4594	2.3511	2.22900	2.26700	2B
			2.3340	2.2253	2.3246	2.2709	2.49674	2.47326	2.5009	2.3381	2.4585	2.3506	2.22916	2.26684	
		3A	2.3376	2.2293	2.3298	2.2757	2.50000	2.47620	2.5000	2.3376	2.4560	2.3477	2.22900	2.25940	3B
			2.3371	2.2284	2.3303	2.2766	2.49984	2.47636	2.5009	2.3381	2.4551	2.3472	2.22916	2.25924	
2½-6 or 2.500-6	UN	2A	2.3890	2.3168	2.3800	2.3439	2.49730	2.47910	2.5000	2.3917	2.4755	2.4033	2.32000	2.35000	2B
			2.3885	2.3160	2.3805	2.3447	2.49714	2.47926	2.5008	2.3922	2.4747	2.4028	2.32016	2.34984	
		3A	2.3917	2.3195	2.3850	2.3489	2.50000	2.48180	2.5000	2.3917	2.4726	2.4004	2.32000	2.33960	3B
			2.3912	2.3187	2.3855	2.3497	2.49984	2.48196	2.5008	2.3922	2.4718	2.3999	2.32016	2.33944	
2½-8 or 2.500-8	UN	2A	2.4164	2.3623	2.4082	2.3811	2.49760	2.48260	2.5000	2.4188	2.4835	2.4294	2.36500	2.39000	2B
			2.4159	2.3616	2.4087	2.3818	2.49744	2.48276	2.5007	2.4193	2.4828	2.4289	2.36516	2.38984	
		3A	2.4188	2.3647	2.4127	2.3856	2.50000	2.48500	2.5000	2.4188	2.4809	2.4268	2.36500	2.37970	3B
			2.4183	2.3640	2.4132	2.3863	2.49984	2.48516	2.5007	2.4193	2.4802	2.4263	2.36516	2.37954	
2½-12 or 2.500-12	UN	2A	2.4440	2.4079	2.4378	2.4198	2.49810	2.48670	2.5000	2.4459	2.4901	2.4540	2.41000	2.42800	2B
			2.4436	2.4073	2.4382	2.4204	2.49794	2.48686	2.5006	2.4463	2.4895	2.4536	2.41016	2.42784	
		3A	2.4459	2.4098	2.4413	2.4233	2.50000	2.48860	2.5000	2.4459	2.4880	2.4519	2.41000	2.41980	3B
			2.4455	2.4092	2.4417	2.4239	2.49984	2.48876	2.5006	2.4463	2.4874	2.4515	2.41016	2.41964	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2½-16 or 2.500-16	UN	2A	2.4577	2.4306	2.4522	2.4387	2.49830	2.48890	2.5000	2.4594	2.4937	2.4666	2.43200	2.44600	2B
			2.4573	2.4300	2.4526	2.4393	2.49814	2.48906	2.5006	2.4598	2.4931	2.4662	2.43216	2.44584	
		3A	2.4594	2.4323	2.4553	2.4418	2.50000	2.49060	2.5000	2.4594	2.4919	2.4648	2.43200	2.44080	3B
			2.4590	2.4317	2.4557	2.4424	2.49984	2.49076	2.5006	2.4598	2.4913	2.4644	2.43216	2.44064	
2½-20 or 2.500-20	UN	2A	2.4660	2.4443	2.4609	2.4501	2.49850	2.49040	2.5000	2.4675	2.4958	2.4741	2.44600	2.45700	2B
			2.4656	2.4438	2.4613	2.4506	2.49834	2.49056	2.5005	2.4679	2.4953	2.4737	2.44616	2.45684	
		3A	2.4675	2.4458	2.4637	2.4529	2.50000	2.49190	2.5000	2.4675	2.4942	2.4725	2.44600	2.45370	3B
			2.4671	2.4453	2.4641	2.4534	2.49984	2.49206	2.5005	2.4679	2.4937	2.4721	2.44616	2.45354	
2⅝-6 or 2.625-6	UN	2A	2.5140	2.4418	2.5050	2.4689	2.6223	2.6041	2.6250	2.5167	2.6007	2.5285	2.4450	2.4750	2B
			2.5135	2.4410	2.5055	2.4697	2.6221	2.6043	2.6258	2.5172	2.5999	2.5280	2.4452	2.4748	
		3A	2.5167	2.4445	2.5099	2.4738	2.6250	2.6068	2.6250	2.5167	2.5977	2.5255	2.4450	2.4646	3B
			2.5162	2.4437	2.5104	2.4746	2.6248	2.6070	2.6258	2.5172	2.5969	2.5250	2.4452	2.4644	
2⅝-8 or 2.625-8	UN	2A	2.5413	2.4872	2.5331	2.5060	2.6225	2.6075	2.6250	2.5438	2.6086	2.5545	2.4900	2.5150	2B
			2.5408	2.4865	2.5336	2.5067	2.6223	2.6077	2.6257	2.5443	2.6079	2.5540	2.4902	2.5148	
		3A	2.5438	2.4897	2.5376	2.5105	2.6250	2.6100	2.6250	2.5438	2.6059	2.5518	2.4900	2.5047	3B
			2.5433	2.4890	2.5381	2.5112	2.6248	2.6102	2.6257	2.5443	2.6052	2.5513	2.4902	2.5045	
2⅝-12 or 2.625-12	UN	2A	2.5690	2.5329	2.5628	2.5448	2.6231	2.6117	2.6250	2.5709	2.6151	2.5790	2.5350	2.5530	2B
			2.5686	2.5323	2.5632	2.5454	2.6229	2.6119	2.6256	2.5713	2.6145	2.5786	2.5352	2.5528	
		3A	2.5709	2.5348	2.5663	2.5483	2.6250	2.6136	2.6250	2.5709	2.6130	2.5769	2.5350	2.5448	3B
			2.5705	2.5342	2.5667	2.5489	2.6248	2.6138	2.6256	2.5713	2.6124	2.5765	2.5352	2.5446	
2⅝-16 or 2.625-16	UN	2A	2.5827	2.5556	2.5772	2.5637	2.6233	2.6139	2.6250	2.5844	2.6187	2.5916	2.5570	2.5710	2B
			2.5823	2.5550	2.5776	2.5643	2.6231	2.6141	2.6256	2.5848	2.6181	2.5912	2.5572	2.5708	
		3A	2.5844	2.5573	2.5803	2.5668	2.6250	2.6156	2.6250	2.5844	2.6169	2.5898	2.5570	2.5658	3B
			2.5840	2.5567	2.5807	2.5674	2.6248	2.6158	2.6256	2.5848	2.6163	2.5894	2.5572	2.5656	
2⅝-20 or 2.625-20	UN	2A	2.5910	2.5693	2.5859	2.5751	2.6235	2.6154	2.6250	2.5925	2.6208	2.5991	2.5710	2.5820	2B
			2.5906	2.5688	2.5863	2.5756	2.6233	2.6156	2.6255	2.5929	2.6203	2.5987	2.5712	2.5818	
		3A	2.5925	2.5708	2.5887	2.5779	2.6250	2.6169	2.6250	2.5925	2.6192	2.5975	2.5710	2.5787	3B
			2.5921	2.5703	2.5891	2.5784	2.6248	2.6171	2.6255	2.5929	2.6187	2.5971	2.5712	2.5785	
2¾-4 or 2.750-4	UNC	1A	2.5844	2.4761	2.5686	2.5145	2.7468	2.7111	2.7500	2.5876	2.7165	2.6082	2.4790	2.5170	1B
			2.5839	2.4752	2.5691	2.5154	2.7466	2.7113	2.7509	2.5881	2.7156	2.6077	2.4792	2.5168	
		2A	2.5844	.24761	2.5739	2.5198	2.7468	2.7230	2.7500	2.5876	2.7096	2.6013	2.4790	2.5170	2B
			2.5839	2.4752	2.5744	2.5207	2.7466	2.7232	2.7509	2.5881	2.7087	2.6008	2.4792	2.5168	
		3A	2.5876	2.4793	2.5797	2.5256	2.7500	2.7262	2.7500	2.5876	2.7062	2.5979	2.4790	2.5094	3B
			2.5871	2.4784	2.5802	2.5265	2.7498	2.7264	2.7509	2.5881	2.7053	2.5974	2.4792	2.5092	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2¾-6 or 2.750-6	UN	2A	2.6390	2.5668	2.6299	2.5938	2.7473	2.7291	2.7500	2.6417	2.7258	2.6536	2.5700	2.6000	2B
			2.6385	2.5660	2.6304	2.5946	2.7471	2.7293	2.7508	2.6422	2.7250	2.6531	2.5702	2.5998	
		3A	2.6417	2.5695	2.6349	2.5988	2.7500	2.7318	2.7500	2.6417	2.7228	2.6506	2.5700	2.5896	3B
			2.6412	2.5687	2.6354	2.5996	2.7498	2.7320	2.7508	2.6422	2.7220	2.6501	2.5702	2.5894	
2¾-8 or 2.750-8	UN	2A	2.6663	2.6122	2.6580	2.6309	2.7475	2.7325	2.7500	2.6688	2.7337	2.6796	2.6150	2.6400	2B
			2.6658	2.6115	2.6585	2.6316	2.7473	2.7327	2.7507	2.6693	2.7330	2.6791	2.6152	2.6398	
		3A	2.6688	2.6147	2.6625	2.6354	2.7500	2.7350	2.7500	2.6688	2.7310	2.6769	2.6150	2.6297	3B
			2.6683	2.6140	2.6630	2.6361	2.7498	2.7352	2.7507	2.6693	2.7303	2.6764	2.6152	2.6295	
2¾-12 or 2.750-12	UN	2A	2.6940	2.6579	2.6878	2.6698	2.7481	2.7367	2.7500	2.6959	2.7401	2.7040	2.6600	2.6780	2B
			2.6936	2.6573	2.6882	2.6704	2.7479	2.7369	2.7506	2.6963	2.7395	2.7036	2.6602	2.6778	
		3A	2.6959	2.6598	2.6913	2.6733	2.7500	2.7386	2.7500	2.6959	2.7380	2.7019	2.6600	2.6698	3B
			2.6955	2.6592	2.6917	2.6739	2.7498	2.7388	2.7506	2.6963	2.7374	2.7015	2.6602	2.6696	
2¾-16 or 2.750-16	UN	2A	2.7077	2.6806	2.7022	2.6887	2.7483	2.7389	2.7500	2.7094	2.7137	2.7166	2.6820	2.6960	2B
			2.7073	2.6800	2.7026	2.6893	2.7481	2.7391	2.7506	2.7098	2.7431	2.7162	2.6822	2.6958	
		3A	2.7094	2.6823	2.7053	2.6918	2.7500	2.7406	2.7500	2.7094	2.7419	2.7148	2.6820	2.6908	3B
			2.7090	2.6817	2.7057	2.6924	2.7498	2.7408	2.7506	2.7098	2.7413	2.7144	2.6822	2.6906	
2¾-20 or 2.750-20	UN	2A	2.7160	2.6943	2.7109	2.7001	2.7485	2.7404	2.7500	2.7175	2.7458	2.7241	2.6960	2.7070	2B
			2.7156	2.6938	2.7113	2.7006	2.7483	2.7406	2.7505	2.7179	2.7453	2.7237	2.6962	2.7068	
		3A	2.7175	2.6958	2.7137	2.7029	2.7500	2.7419	2.7500	2.7175	2.7442	2.7225	2.6960	2.7037	3B
			2.7171	2.6953	2.7141	2.7034	2.7498	2.7421	2.7505	2.7179	2.7437	2.7221	2.6962	2.7035	
2⅞-6 or 2.875-6	UN	2A	2.7639	2.6917	2.7547	2.7186	2.8722	2.8540	2.8750	2.7667	2.8509	2.7787	2.6950	2.7250	2B
			2.7634	2.6909	2.7552	2.7194	2.8720	2.8542	2.8758	2.7672	2.8501	2.7782	2.6952	2.7248	
		3A	2.7667	2.6945	2.7598	2.7237	2.8750	2.8568	2.8750	2.7667	2.8479	2.7757	2.6950	2.7146	3B
			2.7662	2.6937	2.7603	2.7245	2.8748	2.8570	2.8758	2.7672	2.8471	2.7752	2.6952	2.7144	
2⅞-8 or 2.875-8	UN	2A	2.7913	2.7372	2.7829	2.7558	2.8725	2.8575	2.8750	2.7938	2.8589	2.8048	2.7400	2.7650	2B
			2.7908	2.7365	2.7834	2.7565	2.8723	2.8577	2.8757	2.7943	2.8582	2.8043	2.7402	2.7648	
		3A	2.7938	2.7397	2.7875	2.7604	2.8750	2.8600	2.8750	2.7938	2.8561	2.8020	2.7400	2.7547	3B
			2.7933	2.7390	2.7880	2.7611	2.8748	2.8602	2.8757	2.7943	2.8554	2.8015	2.7402	2.7545	
2⅞-12 or 2.875-12	UN	2A	2.8190	2.7829	2.8127	2.7947	2.8731	2.8617	2.8750	2.8209	2.8652	2.8291	2.7850	2.8030	2B
			2.8186	2.7823	2.8131	2.7953	2.8729	2.8619	2.8756	2.8213	2.8646	2.8287	2.7852	2.8028	
		3A	2.8209	2.7848	2.8162	2.7982	2.8750	2.8636	2.8750	2.8209	2.8632	2.8271	2.7850	2.7948	3B
			2.8205	2.8742	2.8166	2.7988	2.8748	2.8638	2.8756	2.8213	2.8626	2.8267	2.7852	2.7946	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2⅞-16 or 2.875-16	UN	2A	2.8327	2.8056	2.8271	2.8136	2.8733	2.8639	2.8750	2.8344	2.8688	2.8417	2.8070	2.8210	2B
			2.8323	2.8050	2.8275	2.8142	2.8731	2.8641	2.8756	2.8348	2.8682	2.8413	2.8072	2.8208	
		3A	2.8344	2.8073	2.8302	2.8167	2.8750	2.8656	2.8750	2.8344	2.8670	2.8399	2.8070	2.8158	3B
			2.8340	2.8067	2.8306	2.8173	2.8748	2.8658	2.8756	2.8348	2.8664	2.8395	2.8072	2.8156	
2⅞-20 or 2.875-20	UN	2A	2.8409	2.8192	2.8357	2.8249	2.8734	2.8653	2.8750	2.8425	2.8710	2.8493	2.8210	2.8320	2B
			2.8405	2.8187	2.8361	2.8254	2.8732	2.8655	2.8755	2.8429	2.8705	2.8489	2.8212	2.8318	
		3A	2.8425	2.8208	2.8386	2.8278	2.8750	2.8669	2.8750	2.8425	2.8693	2.8476	2.8210	2.8287	3B
			2.8421	2.8203	2.8390	2.8283	2.8748	2.8671	2.8755	2.8429	2.8688	2.8472	2.8212	2.8285	
3-4 or 3.000-4	UNC	1A	2.8344	2.7261	2.8183	2.7642	2.9968	2.9611	3.0000	2.8376	2.9668	2.8585	2.7290	2.7670	1B
			2.8339	2.7252	2.8188	2.7651	2.9966	2.9613	3.0009	2.8381	2.9659	2.8580	2.7292	2.7668	
		2A	2.8344	2.7261	2.8237	2.7696	2.9968	2.9730	3.0000	2.8376	2.9598	2.8515	2.7290	2.7670	2B
			2.8339	2.7252	2.8242	2.7705	2.9966	2.9732	3.0009	2.8381	2.9589	2.8510	2.7292	2.7668	
		3A	2.8376	2.7293	2.8296	2.7755	3.0000	2.9762	3.0000	2.8376	2.9563	2.8480	2.7290	2.7594	3B
			2.8371	2.7284	2.8301	2.7764	2.9998	2.9764	3.0009	2.8381	2.9554	2.8475	2.7292	2.7592	
3-6 or 3.000-6	UN	2A	2.8889	2.8167	2.8796	2.8435	2.9972	2.9790	3.0000	2.8917	2.9760	2.9038	2.8200	2.8500	2B
			2.8884	2.8159	2.8801	2.8443	2.9970	2.9792	3.0008	2.8922	2.9752	2.9033	2.8202	2.8498	
		3A	2.8917	2.8195	2.8847	2.8486	3.0000	2.9818	3.0000	2.8917	2.9730	2.9008	2.8200	2.8396	3B
			2.8912	2.8187	2.8852	2.8494	2.9998	2.9820	3.0008	2.8922	2.9722	2.9003	2.8202	2.8394	
3-8 or 3.000-8	UN	2A	2.9162	2.8621	2.9077	2.8806	2.9974	2.9824	3.0000	2.9188	2.9840	2.9299	2.8650	2.8900	2B
			2.9157	2.8614	2.9082	2.8813	2.9972	2.9826	3.0007	2.9193	2.9833	2.9294	2.8652	2.8898	
		3A	2.9188	2.8647	2.9124	2.8853	3.0000	2.9850	3.0000	2.9188	2.9812	2.9271	2.8650	2.8797	3B
			2.9183	2.8640	2.9129	2.8860	2.9998	2.9852	3.0007	2.9193	2.9805	2.9266	2.8652	2.8795	
3-12 or 3.000-12	UN	2A	2.9440	2.9079	2.9377	2.9197	2.9981	2.9867	3.0000	2.9459	2.9902	2.9541	2.9100	2.9280	2B
			2.9436	2.9073	2.9381	2.9203	2.9979	2.9869	3.0006	2.9463	2.9896	2.9537	2.9102	2.9278	
		3A	2.9459	2.9098	2.9412	2.9232	3.0000	2.9886	3.0000	2.9459	2.9882	2.9521	2.9100	2.9198	3B
			2.9455	2.9092	2.9416	2.9238	2.9998	2.9888	3.0006	2.9463	2.9876	2.9517	2.9102	2.9196	
3-16 or 3.000-16	UN	2A	2.9577	2.9306	2.9521	2.9386	2.9983	2.9889	3.0000	2.9594	2.9938	2.9667	2.9320	2.9460	2B
			2.9573	2.9300	2.9525	2.9392	2.9981	2.9891	3.0006	2.9598	2.9932	2.9663	2.9322	2.9458	
		3A	2.9594	2.9323	2.9552	2.9417	3.0000	2.9906	3.0000	2.9594	2.9920	2.9649	2.9320	2.9408	3B
			2.9590	2.9317	2.9556	2.9423	2.9998	2.9908	3.0006	2.9598	2.9914	2.9645	2.9322	2.9406	
3-20 or 3.000-20	UN	2A	2.9659	2.9442	2.9607	2.9499	2.9984	2.9903	3.0000	2.9675	2.9960	2.9743	2.9460	2.9570	2B
			2.9655	2.9437	2.9611	2.9504	2.9982	2.9905	3.0005	2.9679	2.9955	2.9739	2.9462	2.9568	
		3A	2.9675	2.9458	2.9636	2.9528	3.0000	2.9919	3.0000	2.9675	2.9943	2.9726	2.9460	2.9537	3B
			2.9671	2.9453	2.9640	2.9533	2.9998	2.9921	3.0005	2.9679	2.9938	2.9722	2.9462	2.9535	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3⅛-6 or 3.125-6	UN	2A	3.0139	2.9417	3.0045	2.9684	3.1222	3.1040	3.1250	3.0167	3.1011	3.0289	2.9450	2.9750	2B
			3.0134	2.9409	3.0050	2.9692	3.1220	3.1042	3.1258	3.0172	3.1003	3.0284	2.9452	2.9748	
		3A	3.0167	2.9445	3.0097	2.9736	3.1250	3.1068	3.1250	3.0167	3.0981	3.0259	2.9450	2.9646	3B
			3.0162	2.9437	3.0102	2.9744	3.1248	3.1070	3.1258	3.0172	3.0973	3.0254	2.9452	2.9644	
3⅛-8 or 3.125-8	UN	2A	3.0412	2.9871	3.0326	3.0055	3.1224	3.1074	3.1250	3.0438	3.1091	3.0550	2.9900	3.0150	2B
			3.0407	2.9864	3.0331	3.0062	3.1222	3.1076	3.1257	3.0443	3.1084	3.0545	2.9902	3.0148	
		3A	3.0438	2.9897	3.0374	3.0103	3.1250	3.1100	3.1250	3.0438	3.1063	3.0522	2.9900	3.0047	3B
			3.0433	2.9890	3.0379	3.0110	3.1248	3.1102	3.1257	3.0443	3.1056	3.0517	2.9902	3.0045	
3⅛-12 or 3.125-12	UN	2A	3.0690	3.0329	3.0627	3.0447	3.1231	3.1117	3.1250	3.0709	3.1152	3.0791	3.0350	3.0530	2B
			3.0686	3.0323	3.0631	3.0453	3.1229	3.1119	3.1256	3.0713	3.1146	3.0787	3.0352	3.0528	
		3A	3.0709	3.0348	3.0662	3.0482	3.1250	3.1136	3.1250	3.0709	3.1132	3.0771	3.0350	3.0448	3B
			3.0705	3.0342	3.0666	3.0488	3.1248	3.1138	3.1256	3.0713	3.1126	3.0767	3.0352	3.0446	
3⅛-16 or 3.125-16	UN	2A	3.0827	3.0556	3.0771	3.0636	3.1233	3.1139	3.1250	3.0844	3.1188	3.0917	3.0570	3.0710	2B
			3.0823	3.0550	3.0775	3.0642	3.1231	3.1141	3.1256	3.0848	3.1182	3.0913	3.0572	3.0708	
		3A	3.0844	3.0573	3.0802	3.0667	3.1250	3.1156	3.1250	3.0844	3.1170	3.0899	3.0570	3.0658	3B
			3.0840	3.0567	3.0806	3.0673	3.1248	3.1158	3.1256	3.0848	3.1164	3.0895	3.0572	3.0656	
3¼-4 or 3.250-4	UNC	1A	3.0843	2.9760	3.0680	3.0139	3.2467	3.2110	3.2500	3.0876	3.2171	3.1088	2.9790	3.0170	1B
			3.0838	2.9751	3.0685	3.0148	3.2465	3.2112	3.2509	3.0881	3.2162	3.1083	2.9792	3.0168	
		2A	3.0843	2.9760	3.0734	3.0193	3.2467	3.2229	3.2500	3.0876	3.2100	3.1017	2.9790	3.0170	2B
			3.0838	2.9751	3.0739	3.0202	3.2465	3.2231	3.2509	3.0881	3.2091	3.1012	2.9792	3.0168	
		3A	3.0876	2.9793	3.0794	3.0253	3.2500	3.2262	3.2500	3.0876	3.2065	3.0982	2.9790	3.0094	3B
			3.0871	2.9784	3.0799	3.0262	3.2498	3.2264	3.2509	3.0881	3.2056	3.0977	2.9792	3.0092	
3¼-6 or 3.250-6	UN	2A	3.1389	3.0667	3.1294	3.0933	3.2472	3.2290	3.2500	3.1417	3.2262	3.1540	3.0700	3.1000	2B
			3.1384	3.0659	3.1299	3.0941	3.2470	3.2292	3.2508	3.1422	3.2254	3.1535	3.0702	3.0998	
		3A	3.1417	3.0695	3.1346	3.0985	3.2500	3.2318	3.2500	3.1417	3.2231	3.1509	3.0700	3.0896	3B
			3.1412	3.0687	3.1351	3.0993	3.2498	3.2320	3.2508	3.1422	3.2223	3.1504	3.0702	3.0894	
3¼-8 or 3.250-8	UN	2A	3.1662	3.1121	3.1575	3.1304	3.2474	3.2324	3.2500	3.1688	3.2342	3.1801	3.1150	3.1400	2B
			3.1657	3.1114	3.1580	3.1311	3.2472	3.2326	3.2507	3.1693	3.2335	3.1796	3.1152	3.1398	
		3A	3.1688	3.1147	3.1623	3.1352	3.2500	3.2350	3.2500	3.1688	3.2314	3.1773	3.1150	3.1297	3B
			3.1683	3.1140	3.1628	3.1359	3.2498	3.2352	3.2507	3.1693	3.2307	3.1768	3.1152	3.1295	
3¼-12 or 3.250-12	UN	2A	3.1940	3.1579	3.1877	3.1697	3.2481	3.2367	3.2500	3.1959	3.2402	3.2041	3.1600	3.1780	2B
			3.1936	3.1573	3.1881	3.1703	3.2479	3.2369	3.2506	3.1963	3.2396	3.2037	3.1602	3.1778	
		3A	3.1959	3.1598	3.1912	3.1732	3.2500	3.2386	3.2500	3.1959	3.2382	3.2021	3.1600	3.1698	3B
			3.1955	3.1592	3.1916	3.1738	3.2498	3.2388	3.2506	3.1963	3.2376	3.2017	3.1602	3.1696	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3¼-16 or 3.250-16	UN	2A	3.2077	3.1806	3.2021	3.1886	3.2483	3.2389	3.2500	3.2094	3.2438	3.2167	3.1820	3.1960	2B
			3.2073	3.1800	3.2025	3.1892	3.2481	3.2391	3.2506	3.2098	3.2432	3.2163	3.1822	3.1958	
		3A	3.2094	3.1823	3.2052	3.1917	3.2500	3.2406	3.2500	3.2094	3.2420	3.2149	3.1820	3.1908	3B
			3.2090	3.1817	3.2056	3.1923	3.2498	3.2408	3.2506	3.2098	3.2414	3.2145	3.1822	3.1906	
3⅜-6 or 3.375-6	UN	2A	3.2638	3.1916	3.2543	3.2182	3.3721	3.3539	3.3750	3.2667	3.3513	3.2791	3.1950	3.2250	2B
			3.2633	3.1908	3.2548	3.2190	3.3719	3.3541	3.3758	3.2672	3.3505	3.2786	3.1952	3.2248	
		3A	3.2667	3.1945	3.2595	3.2234	3.3750	3.3568	3.3750	3.2667	3.3482	3.2760	3.1950	3.2146	3B
			3.2662	3.1937	3.2600	3.2242	3.3748	3.3570	3.3758	3.2672	3.3474	3.2755	3.1952	3.2144	
3⅜-8 or 3.375-8	UN	2A	3.2912	3.2371	3.2824	3.2553	3.3724	3.3574	3.3750	3.2938	3.3593	3.3052	3.2400	3.2650	2B
			3.2907	3.2364	3.2829	3.2560	3.3722	3.3576	3.3757	3.2943	3.3586	3.3047	3.2402	3.2648	
		3A	3.2938	3.2397	3.2872	3.2601	3.3750	3.3600	3.3750	3.2938	3.3564	3.3023	3.2400	3.2547	3B
			3.2933	3.2390	3.2877	3.2608	3.3748	3.3602	3.3757	3.2943	3.3557	3.3018	3.2402	3.2545	
3⅜-12 or 3.375-12	UN	2A	3.3190	3.2829	3.3126	3.2946	3.3731	3.3617	3.3750	3.3209	3.3654	3.3293	3.2850	3.3030	2B
			3.3186	3.2823	3.3130	3.2952	3.3729	3.3619	3.3756	3.3213	3.3648	3.3289	3.2852	3.3028	
		3A	3.3209	3.2848	3.3161	3.2981	3.3750	3.3636	3.3750	3.3209	3.3633	3.3272	3.2850	3.2948	3B
			3.3205	3.2842	3.3165	3.2987	3.3748	3.3638	3.3756	3.3213	3.3627	3.3268	3.2852	3.2946	
3⅜-16 or 3.375-16	UN	2A	3.3327	3.3056	3.3269	3.3134	3.3733	3.3639	3.3750	3.3344	3.3690	3.3419	3.3070	3.3210	2B
			3.3323	3.3050	3.3273	3.3140	3.3731	3.3641	3.3756	3.3348	3.3684	3.3415	3.3072	3.3208	
		3A	3.3344	3.3073	3.3301	3.3166	3.3750	3.3656	3.3750	3.3344	3.3671	3.3400	3.3070	3.3158	3B
			3.3340	3.3067	3.3305	3.3172	3.3748	3.3658	3.3756	3.3348	3.3665	3.3396	3.3072	3.3156	
3½-4 or 3.500-4	UNC	1A	3.3343	3.2260	3.3177	3.2636	3.4967	3.4610	3.5000	3.3376	3.4674	3.3591	3.2290	3.2670	1B
			3.3338	3.2251	3.3182	3.2645	3.4965	3.4612	3.5009	3.3381	3.4665	3.3586	3.2292	3.2668	
		2A	3.3343	3.2260	3.3233	3.2692	3.4967	3.4729	3.5000	3.3376	3.4602	3.3519	3.2290	3.2670	2B
			3.3338	3.2251	3.3238	3.2701	3.4965	3.4731	3.5009	3.3381	3.4593	3.3514	3.2292	3.2668	
		3A	3.3376	3.2293	3.3293	3.2752	3.5000	3.4762	3.5000	3.3376	3.4567	3.3484	3.2290	3.2594	3B
			3.3371	3.2284	3.3298	3.2761	3.4998	3.4764	3.5009	3.3381	3.4558	3.3479	3.2292	3.2592	
3½-6 or 3.500-6	UN	2A	3.3888	3.3166	3.3792	3.3431	3.4971	3.4789	3.5000	3.3917	3.4764	3.4042	3.3200	3.3500	2B
			3.3883	3.3158	3.3797	3.3439	3.4969	3.4791	3.5008	3.3922	3.4756	3.4037	3.3202	3.3498	
		3A	3.3917	3.3195	3.3845	3.3484	3.5000	3.4818	3.5000	3.3917	3.4733	3.4011	3.3200	3.3396	3B
			3.3912	3.3187	3.3850	3.3492	3.4998	3.4820	3.5008	3.3922	3.4725	3.4006	3.3202	3.3394	
3½-8 or 3.500-8	UN	2A	3.4162	3.3621	3.4074	3.3803	3.4974	3.4824	3.5000	3.4188	3.4844	3.4303	3.3650	3.3900	2B
			3.4157	3.3614	3.4079	3.3810	3.4972	3.4826	3.5007	3.4193	3.4837	3.4298	3.3652	3.3898	
		3A	3.4188	3.3647	3.4122	3.3851	3.5000	3.4850	3.5000	3.4188	3.4815	3.4274	3.3650	3.3797	3B
			3.4183	3.3640	3.4127	3.3858	3.4998	3.4852	3.5007	3.4193	3.4808	3.4269	3.3652	3.3795	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3½-12 or 3.500-12	UN	2A	3.4440	3.4079	3.4376	3.4196	3.4981	3.4867	3.5000	3.4459	3.4904	3.4543	3.4100	3.4280	2B
			3.4436	3.4073	3.4380	3.4202	3.4979	3.4869	3.5006	3.4463	3.4898	3.4539	3.4102	3.4278	
		3A	3.4459	3.4098	3.4411	3.4231	3.5000	3.4886	3.5000	3.4459	3.4883	3.4522	3.4100	3.4198	3B
			3.4455	3.4092	3.4415	3.4237	3.4998	3.4888	3.5006	3.4463	3.4877	3.4518	3.4102	3.4196	
3½-16 or 3.500-16	UN	2A	3.4577	3.4306	3.4519	3.4384	3.4983	3.4889	3.5000	3.4594	3.4940	3.4669	3.4320	3.4460	2B
			3.4573	3.4300	3.4523	3.4390	3.4981	3.4891	3.5006	3.4598	3.4934	3.4665	3.4322	3.4458	
		3A	3.4594	3.4323	3.4551	3.4416	3.5000	3.4906	3.5000	3.4594	3.4921	3.4650	3.4320	3.4408	3B
			3.4590	3.4317	3.4555	3.4422	3.4998	3.4908	3.5006	3.4598	3.4915	3.4646	3.4322	3.4406	
3⅝-6 or 3.625-6	UN	2A	3.5138	3.4416	3.5041	3.4680	3.6221	3.6039	3.6250	3.5167	3.6015	3.5293	3.4450	3.4750	2B
			3.5133	3.4408	3.5046	3.4688	3.6219	3.6041	3.6258	3.5172	3.6007	3.5288	3.4452	3.4748	
		3A	3.5167	3.4445	3.5094	3.4733	3.6250	3.6068	3.6250	3.5167	3.5984	3.5262	3.4450	3.4646	3B
			3.5162	3.4437	3.5099	3.4741	3.6248	3.6070	3.6258	3.5172	3.5976	3.5257	3.4452	3.4644	
3⅝-8 or 3.625-8	UN	2A	3.5411	3.4870	3.5322	3.5051	3.6223	3.6073	3.6250	3.5438	3.6095	3.5554	3.4900	3.5150	2B
			3.5406	3.4863	3.5327	3.5058	3.6221	3.6075	3.6257	3.5443	3.6088	3.5549	3.4902	3.5148	
		3A	3.5438	3.4897	3.5371	3.5100	3.6250	3.6100	3.6250	3.5438	3.6066	3.5525	3.4900	3.5047	3B
			3.5433	3.4890	3.5376	3.5107	3.6248	3.6102	3.6257	3.5443	3.6059	3.5520	3.4902	3.5045	
3⅝-12 or 3.625-12	UN	2A	3.5690	3.5329	3.5626	3.5446	3.6231	3.6117	3.6250	3.5709	3.6154	3.5793	3.5350	3.5530	2B
			3.5686	3.5323	3.5630	3.5452	3.6229	3.6119	3.6256	3.5713	3.6148	3.5789	3.5352	3.5528	
		3A	3.5709	3.5348	3.5661	3.5481	3.6250	3.6136	3.6250	3.5709	3.6133	3.5772	3.5350	3.5448	3B
			3.5705	3.5342	3.5665	3.5487	3.6248	3.6138	3.6256	3.5713	3.6127	3.5768	3.5352	3.5446	
3⅝-16 or 3.625-16	UN	2A	3.5827	3.5556	3.5769	3.5634	3.6233	3.6139	3.6250	3.5844	3.6190	3.5919	3.5570	3.5710	2B
			3.5823	3.5550	3.5773	3.5640	3.6231	3.6141	3.6256	3.5848	3.6184	3.5915	3.5572	3.5708	
		3A	3.5844	3.5573	3.5801	3.5666	3.6250	3.6156	3.6250	3.5844	3.6171	3.5900	3.5570	3.5658	3B
			3.5840	3.5567	3.5805	3.5672	3.6248	3.6158	3.6256	3.5848	3.6165	3.5896	3.5572	3.5656	
3¾-4 or 3.750-4	UNC	1A	3.5842	3.4759	3.5674	3.5133	3.7466	3.7109	3.7500	3.5876	3.7177	3.6094	3.4790	3.5170	1B
			3.5837	3.4750	3.5679	3.5142	3.7464	3.7111	3.7509	3.5881	3.7168	3.6089	3.4792	3.5168	
		2A	3.5842	3.4759	3.5730	3.5189	3.7466	3.7228	3.7500	3.5876	3.7104	3.6021	3.4790	3.5170	2B
			3.5837	3.4750	3.5735	3.5198	3.7464	3.7230	3.7509	3.5881	3.7095	3.6016	3.4792	3.5168	
		3A	3.5876	3.4793	3.5792	3.5251	3.7500	3.7262	3.7500	3.5876	3.7068	3.5985	3.4790	3.5094	3B
			3.5871	3.4784	3.5797	3.5260	3.7498	3.7264	3.7509	3.5881	3.7059	3.5980	3.4792	3.5092	
3¾-6 or 3.750-6	UN	2A	3.6388	3.5666	3.6290	3.5929	3.7471	3.7289	3.7500	3.6417	3.7266	3.6544	3.5700	3.6000	2B
			3.6383	3.5658	3.6295	3.5937	3.7469	3.7291	3.7508	3.6422	3.7258	3.6539	3.5702	3.5998	
		3A	3.6417	3.5695	3.6344	3.5983	3.7500	3.7318	3.7500	3.6417	3.7234	3.6512	3.5700	3.5896	3B
			3.6412	3.5687	3.6349	3.5991	3.7498	3.7320	3.7508	3.6422	3.7226	3.6507	3.5702	3.5894	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3¾-8 or 3.750-8	UN	2A	3.6661	3.6120	3.6571	3.6300	3.7473	3.7323	3.7500	3.6688	3.7346	3.6805	3.6150	3.6400	2B
			3.6656	3.6113	3.6576	3.6307	3.7471	3.7325	3.7507	3.6693	3.7339	3.6800	3.6152	3.6398	
		3A	3.6688	3.6147	3.6621	3.6350	3.7500	3.7350	3.7500	3.6688	3.7317	3.6776	3.6150	3.6297	3B
			3.6683	3.6140	3.6626	3.6357	3.7498	3.7352	3.7507	3.6693	3.7310	3.6771	3.6152	3.6295	
3¾-12 or 3.750-12	UN	2A	3.6940	3.6579	3.6876	3.6696	3.7481	3.7367	3.7500	3.6959	3.7404	3.7043	3.6600	3.6780	2B
			3.6936	3.6573	3.6880	3.6702	3.7479	3.7369	3.7506	3.6963	3.7398	3.7039	3.6602	3.6778	
		3A	3.6959	3.6598	3.6911	3.6731	3.7500	3.7386	3.7500	3.6959	3.7383	3.7022	3.6600	3.6698	3B
			3.6955	3.6592	3.6915	3.6737	3.7498	3.7388	3.7506	3.6963	3.7377	3.7018	3.6602	3.6696	
3¾-16 or 3.750-16	UN	2A	3.7077	3.6806	3.7019	3.6884	3.7483	3.7389	3.7500	3.7094	3.7440	3.7169	3.6820	3.6960	2B
			3.7073	3.6800	3.7023	3.6890	3.7481	3.7391	3.7506	3.7098	3.7434	3.7165	3.6822	3.6958	
		3A	3.7094	3.6823	3.7051	3.6916	3.7500	3.7406	3.7500	3.7094	3.7421	3.7150	3.6820	3.6908	3B
			3.7090	3.6817	3.7055	3.6922	3.7498	3.7408	3.7506	3.7098	3.7415	3.7146	3.6822	3.6906	
3⅞-6 or 3.875-6	UN	2A	3.7637	3.6915	3.7538	3.7177	3.8720	3.8538	3.8750	3.7667	3.8517	3.7795	3.6950	3.7250	2B
			3.7632	3.6907	3.7543	3.7185	3.8718	3.8540	3.8758	3.7672	3.8509	3.7790	3.6952	3.7248	
		3A	3.7667	3.6945	3.7593	3.7232	3.8750	3.8568	3.8750	3.7667	3.8485	3.7763	3.6950	3.7146	3B
			3.7662	3.6937	3.7598	3.7240	3.8748	3.8570	3.8758	3.7672	3.8477	3.7758	3.6952	3.7144	
3⅞-8 or 3.875-8	UN	2A	3.7911	3.7370	3.7820	3.7549	3.8723	3.8573	3.8750	3.7938	3.8597	3.8056	3.7400	3.7650	2B
			3.7906	3.7363	3.7825	3.7556	3.8721	3.8575	3.8757	3.7943	3.8590	3.8051	3.7402	3.7648	
		3A	3.7938	3.7397	3.7870	3.7599	3.8750	3.8600	3.8750	3.7938	3.8567	3.8026	3.7400	3.7547	3B
			3.7933	3.7390	3.7875	3.7606	3.8748	3.8602	3.8757	3.7943	3.8560	3.8021	3.7402	3.7545	
3⅞-12 or 3.875-12	UN	2A	3.8189	3.7828	3.8124	3.7944	3.8730	3.8616	3.8750	3.8209	3.8655	3.8294	3.7850	3.8030	2B
			3.8185	3.7822	3.8128	3.7950	3.8728	3.8618	3.8756	3.8213	3.8649	3.8290	3.7852	3.8028	
		3A	3.8209	3.7848	3.8160	3.7980	3.8750	3.8636	3.8750	3.8209	3.8634	3.8273	3.7850	3.7948	3B
			3.8205	3.7842	3.8164	3.7986	3.8748	3.8638	3.8756	3.8213	3.8628	3.8269	3.7852	3.7946	
3⅞-16 or 3.875-16	UN	2A	3.8326	3.8055	3.8267	3.8132	3.8732	3.8638	3.8750	3.8344	3.8691	3.8420	3.8070	3.8210	2B
			3.8322	3.8049	3.8271	3.8138	3.8730	3.8640	3.8756	3.8348	3.8685	3.8416	3.8072	3.8208	
		3A	3.8344	3.8073	3.8300	3.8165	3.8750	3.8656	3.8750	3.8344	3.8672	3.8401	3.8070	3.8158	3B
			3.8340	3.8067	3.8304	3.8171	3.8748	3.8658	3.8756	3.8348	3.8666	3.8397	3.8072	3.8156	
4-4 or 4.000-4	UNC	1A	3.8342	3.7259	3.8172	3.7631	3.9966	3.9609	4.0000	3.8376	3.9680	3.8597	3.7290	3.7670	1B
			3.8337	3.7250	3.8177	3.7640	3.9964	3.9611	4.0009	3.8381	3.9671	3.8592	3.7292	3.7668	
		2A	3.8342	3.7259	3.8229	3.7688	3.9966	3.9728	4.0000	3.8376	3.9606	3.8523	3.7290	3.7670	2B
			3.8337	3.7250	3.8234	3.7697	3.9964	3.9730	4.0009	3.8381	3.9597	3.8518	3.7292	3.7668	
		3A	3.8376	3.7293	3.8291	3.7750	4.0000	3.9762	4.0000	3.8376	3.9570	3.8487	3.7290	3.7594	3B
			3.8371	3.7284	3.8296	3.7759	3.9998	3.9764	4.0009	3.8381	3.9561	3.8482	3.7292	3.7592	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4-6 or 4.000-6	UN	2A	3.8887	3.8165	3.8788	3.8427	3.9970	3.9788	4.0000	3.8917	3.9768	3.9045	3.8200	3.8500	2B
			3.8882	3.8157	3.8793	3.8435	3.9968	3.9790	4.0008	3.8922	3.9760	3.9041	3.8202	3.8498	
		3A	3.8917	3.8195	3.8843	3.8482	4.0000	3.9818	4.0000	3.8917	3.9736	3.9014	3.8200	3.8396	3B
			3.8912	3.8187	3.8848	3.8490	3.9998	3.9820	4.0008	3.8922	3.9728	3.9009	3.8202	3.8394	
4-8 or 4.000-8	UN	2A	3.9161	3.8620	3.9070	3.8799	3.9973	3.9823	4.0000	3.9188	3.9848	3.9307	3.8650	3.8900	2B
			3.9156	3.8613	3.9075	3.8806	3.9971	3.9825	4.0007	3.9193	3.9841	3.9302	3.8652	3.8898	
		3A	3.9188	3.8647	3.9120	3.8849	4.0000	3.9850	4.0000	3.9188	3.9818	3.9277	3.8650	3.8797	3B
			3.9183	3.8640	3.9125	3.8856	3.9998	3.9852	4.0007	3.9193	3.9811	3.9272	3.8652	3.8795	
4-12 or 4.000-12	UN	2A	3.9439	3.9078	3.9374	3.9194	3.9980	3.9866	4.0000	3.9459	3.9905	3.9544	3.9100	3.9280	2B
			3.9435	3.9072	3.9378	3.9200	3.9978	3.9868	4.0006	3.9463	3.9899	3.9540	3.9102	3.9278	
		3A	3.9459	3.9098	3.9410	3.9230	4.0000	3.9886	4.0000	3.9459	3.9884	3.9523	3.9100	3.9198	3B
			3.9455	3.9092	3.9414	3.9236	3.9998	3.9888	4.0006	3.9463	3.9878	3.9519	3.9102	3.9196	
4-16 or 4.000-16	UN	2A	3.9576	3.9305	3.9517	3.9382	3.9982	3.9888	4.0000	3.9594	3.9941	3.9670	3.9320	3.9460	2B
			3.9572	3.9299	3.9521	3.9388	3.9980	3.9890	4.0006	3.9598	3.9935	3.9666	3.9322	3.9458	
		3A	3.9594	3.9323	3.9550	3.9415	4.0000	3.9906	4.0000	3.9594	3.9922	3.9651	3.9320	3.9408	3B
			3.9590	3.9317	3.9554	3.9421	3.9998	3.9908	4.0006	3.9598	3.9916	3.9647	3.9322	3.9406	
4⅛-6 or 4.125-6	UN	2A	4.0137	3.9415	4.0037	3.9676	4.1220	4.1038	4.1250	4.0167	4.1019	4.0297	3.9450	3.9750	2B
			4.0131	3.9402	4.0043	3.9689	4.1218	4.1040	4.1263	4.0173	4.1006	4.0291	3.9452	3.9748	
		3A	4.0167	3.9445	4.0092	3.9731	4.1250	4.1068	4.1250	4.0167	4.0986	4.0264	3.9450	3.9646	3B
			4.0161	3.9432	4.0098	3.9744	4.1248	4.1070	4.1263	4.0173	4.0973	4.0258	3.9452	3.9644	
4⅛-12 or 4.125-12	UN	2A	4.0689	4.0328	4.0624	4.0444	4.1230	4.1116	4.1250	4.0709	4.1155	4.0794	4.0350	4.0530	2B
			4.0683	4.0319	4.0630	4.0453	4.1228	4.1118	4.1259	4.0715	4.1146	4.0788	4.0352	4.0528	
		3A	4.0709	4.0348	4.0660	4.0480	4.1250	4.1136	4.1250	4.0709	4.1134	4.0773	4.0350	4.0448	3B
			4.0703	4.0339	4.0666	4.0489	4.1248	4.1138	4.1259	4.0715	4.1125	4.0767	4.0352	4.0446	
4⅛-16 or 4.125-16	UN	2A	4.0826	4.0555	4.0767	4.0632	4.1232	4.1138	4.1250	4.0844	4.1191	4.0920	4.0570	4.0710	2B
			4.0820	4.0546	4.0773	4.0641	4.1230	4.1140	4.1259	4.0850	4.1182	4.0914	4.0572	4.0708	
		3A	4.0844	4.0573	4.0800	4.0665	4.1250	4.1156	4.1250	4.0844	4.1172	4.0901	4.0570	4.0658	3B
			4.0838	4.0564	4.0806	4.0674	4.1248	4.1158	4.1259	4.0850	4.1163	4.0895	4.0572	4.0656	
4¼-4 or 4.250-4	UN	2A	4.0842	3.9759	4.0727	4.0186	4.2466	4.2228	4.2500	4.0876	4.2108	4.1025	3.9790	4.0170	2B
			4.0836	3.9744	4.0733	4.0201	4.2464	4.2230	4.2515	4.0882	4.2093	4.1019	3.9792	4.0168	
		3A	4.0876	3.9793	4.0790	4.0249	4.2500	4.2262	4.2500	4.0876	4.2071	4.0988	3.9790	4.0094	3B
			4.0870	3.9778	4.0796	4.0264	4.2498	4.2264	4.2515	4.0882	4.2056	4.0982	3.9792	4.0092	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4¼-6 or 4.250-6	UN	2A	4.1387	4.0665	4.1286	4.0925	4.2470	4.2288	4.2500	4.1417	4.2270	4.1548	4.0700	4.1000	2B
			4.1381	4.0652	4.1292	4.0938	4.2468	4.2290	4.2513	4.1423	4.2257	4.1542	4.0702	4.0998	
		3A	4.1417	4.0695	4.1342	4.0981	4.2500	4.2318	4.2500	4.1417	4.2237	4.1515	4.0700	4.0896	3B
			4.1411	4.0682	4.1348	4.0994	4.2498	4.2320	4.2513	4.1423	4.2224	4.1509	4.0702	4.0894	
4¼-12 or 4.250-12	UN	2A	4.1939	4.1578	4.1874	4.1694	4.2480	4.2366	4.2500	4.1959	4.2405	4.2044	4.1600	4.1780	2B
			4.1933	4.1569	4.1880	4.1703	4.2478	4.2368	4.2509	4.1965	4.2396	4.2038	4.1602	4.1778	
		3A	4.1959	4.1598	4.1910	4.1730	4.2500	4.2386	4.2500	4.1959	4.2384	4.2023	4.1600	4.1698	3B
			4.1953	4.1589	4.1916	4.1739	4.2498	4.2388	4.2509	4.1965	4.2375	4.2017	4.1602	4.1696	
4¼-16 or 4.250-16	UN	2A	4.2076	4.1805	4.2017	4.1882	4.2482	4.2388	4.2500	4.2094	4.2441	4.2170	4.1820	4.1960	2B
			4.2070	4.1796	4.2023	4.1891	4.2480	4.2390	4.2509	4.2100	4.2432	4.2164	4.1822	4.1958	
		3A	4.2094	4.1823	4.2050	4.1915	4.2500	4.2406	4.2500	4.2094	4.2422	4.2151	4.1820	4.1908	3B
			4.2088	4.1814	4.2056	4.1924	4.2498	4.2408	4.2509	4.2100	4.2413	4.2145	4.1822	4.1906	
4⅜-6 or 4.375-6	UN	2A	4.2637	4.1915	4.2536	4.2175	4.3720	4.3538	4.3750	4.2667	4.3521	4.2799	4.1950	4.2250	2B
			4.2631	4.1902	4.2542	4.2188	4.3718	4.3540	4.3763	4.2673	4.3508	4.2793	4.1952	4.2248	
		3A	4.2667	4.1945	4.2591	4.2230	4.3750	4.3568	4.3750	4.2667	4.3488	4.2766	4.1950	4.2146	3B
			4.2661	4.1932	4.2597	4.2243	4.3748	4.3570	4.3763	4.2673	4.3475	4.2760	4.1952	4.2144	
4⅜-12 or 4.375-12	UN	2A	4.3189	4.2828	4.3124	4.2944	4.3730	4.3616	4.3750	4.3209	4.3655	4.3294	4.2850	4.3030	2B
			4.3183	4.2819	4.3130	4.2953	4.3728	4.3618	4.3759	4.3215	4.3646	4.3288	4.2852	4.3028	
		3A	4.3209	4.2848	4.3160	4.2980	4.3750	4.3636	4.3750	4.3209	4.3634	4.3273	4.2850	4.2948	3B
			4.3203	4.2839	4.3166	4.2989	4.3748	4.3638	4.3759	4.3215	4.3625	4.3267	4.2852	4.2946	
4⅜-16 or 4.375-16	UN	2A	4.3326	4.3055	4.3267	4.3132	4.3732	4.3638	4.3750	4.3344	4.3691	4.3420	4.3070	4.3210	2B
			4.3320	4.3046	4.3273	4.3141	4.3730	4.3640	4.3759	4.3350	4.3682	4.3414	4.3072	4.3208	
		3A	4.3344	4.3073	4.3300	4.3165	4.3750	4.3656	4.3750	4.3344	4.3672	4.3401	4.3070	4.3158	3B
			4.3338	4.3064	4.3306	4.3174	4.3748	4.3658	4.3759	4.3350	4.3663	4.3395	4.3072	4.3156	
4½-4 or 4.500-4	UN	2A	4.3341	4.2258	4.3225	4.2684	4.4965	4.4727	4.5000	4.3376	4.4610	4.3527	4.2290	4.2670	2B
			4.3335	4.2243	4.3231	4.2699	4.4963	4.4729	4.5015	4.3382	4.4595	4.3521	4.2292	4.2668	
		3A	4.3376	4.2293	4.3289	4.2748	4.5000	4.4762	4.5000	4.3376	4.4572	4.3489	4.2290	4.2594	3B
			4.3370	4.2278	4.3295	4.2763	4.4998	4.4764	4.5015	4.3382	4.4557	4.3483	4.2292	4.2592	
4½-6 or 4.500-6	UN	2A	4.3886	4.3164	4.3784	4.3423	4.4969	4.4787	4.5000	4.3917	4.4772	4.4050	4.3200	4.3500	2B
			4.3880	4.3151	4.3790	4.3436	4.4967	4.4789	4.5013	4.3923	4.4759	4.4044	4.3202	4.3498	
		3A	4.3917	4.3195	4.3840	4.3479	4.5000	4.4818	4.5000	4.3917	4.4738	4.4016	4.3200	4.3396	3B
			4.3911	4.3182	4.3846	4.3492	4.4998	4.4820	4.5013	4.3923	4.4725	4.4010	4.3202	4.3394	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4½-12 or 4.500-12	UN	2A	4.4439	4.4078	4.4374	4.4194	4.4980	4.4866	4.5000	4.4459	4.4905	4.4544	4.4100	4.4280	2B
			4.4433	4.4069	4.4380	4.4203	4.4978	4.4868	4.5009	4.4465	4.4896	4.4538	4.4102	4.4278	
		3A	4.4459	4.4098	4.4410	4.4230	4.5000	4.4886	4.5000	4.4459	4.4884	4.4523	4.4100	4.4198	3B
			4.4453	4.4089	4.4416	4.4239	4.4998	4.4888	4.5009	4.4465	4.4875	4.4517	4.4102	4.4196	
4½-16 or 4.500-16	UN	2A	4.4576	4.4305	4.4517	4.4382	4.4982	4.4888	4.5000	4.4594	4.4941	4.4670	4.4320	4.4460	2B
			4.4570	4.4296	4.4523	4.4391	4.4980	4.4890	4.5009	4.4600	4.4932	4.4664	4.4322	4.4458	
		3A	4.4594	4.4323	4.4550	4.4415	4.5000	4.4906	4.5000	4.4594	4.4922	4.4651	4.4320	4.4408	3B
			4.4588	4.4314	4.4556	4.4424	4.4998	4.4908	4.5009	4.4600	4.4913	4.4645	4.4322	4.4406	
4⅝-6 or 4.625-6	UN	2A	4.5136	4.4414	4.5033	4.4672	4.62190	4.60370	4.6250	4.5167	4.6022	4.5300	4.44500	4.47500	2B
			4.5130	4.4401	4.5039	4.4685	4.62165	4.60395	4.6263	4.5173	4.6009	4.5294	4.44525	4.47475	
		3A	4.5167	4.4445	4.5090	4.4729	4.62500	4.60680	4.6250	4.5167	4.5989	4.5267	4.44500	4.46460	3B
			4.5161	4.4432	4.5096	4.4742	4.62475	4.60705	4.6263	4.5173	4.5976	4.5261	4.44525	4.46435	
4⅝-12 or 4.625-12	UN	2A	4.5689	4.5328	4.5622	4.5442	4.62300	4.61160	4.6250	4.5709	4.6157	4.5796	4.53500	4.55300	2B
			4.5683	4.5319	4.5628	4.5451	4.62275	4.61185	4.6259	4.5715	4.6148	4.5790	4.53525	4.55275	
		3A	4.5709	4.5348	4.5659	4.5479	4.62500	4.61360	4.6250	4.5709	4.6136	4.5775	4.53500	4.54480	3B
			4.5703	4.5339	4.5665	4.5488	4.62475	4.61385	4.6259	4.5715	4.6127	4.5769	4.53525	4.54455	
4⅝-16 or 4.625-16	UN	2A	4.5826	4.5555	4.5765	4.5630	4.62320	4.61380	4.6250	4.5844	4.6194	4.5923	4.55700	4.57100	2B
			4.5820	4.5546	4.5771	4.5639	4.62295	4.61405	4.6259	4.5850	4.6185	4.5917	4.55725	4.57075	
		3A	4.5844	4.5573	4.5799	4.5664	4.62500	4.61560	4.6250	4.5844	4.6174	4.5903	4.55700	4.56580	3B
			4.5838	4.5564	4.5805	4.5673	4.62475	4.61585	4.6259	4.5850	4.6165	4.5897	4.55725	4.56555	
4¾-4 or 4.750-4	UN	2A	4.5841	4.4758	4.5724	4.5183	4.74650	4.72270	4.7500	4.5876	4.7112	4.6029	4.47900	4.51700	2B
			4.5835	4.4743	4.5730	4.5198	4.74625	4.72295	4.7515	4.5882	4.7097	4.6023	4.47925	4.51675	
		3A	4.5876	4.4793	4.5788	4.5247	4.75000	4.72620	4.7500	4.5876	4.7073	4.5990	4.47900	4.50940	3B
			4.5870	4.4778	4.5794	4.5262	4.74975	4.72645	4.7515	4.5882	4.7058	4.5984	4.47925	4.50915	
4¾-6 or 4.750-6	UN	2A	4.6386	4.5664	4.6283	4.5922	4.74690	4.72870	4.7500	4.6417	4.7273	4.6551	4.57000	4.60000	2B
			4.6380	4.5651	4.6289	4.5935	4.74665	4.72895	4.7513	4.6423	4.7260	4.6545	4.57025	4.59975	
		3A	4.6417	4.5695	4.6340	4.5979	4.75000	4.73180	4.7500	4.6417	4.7240	4.6518	4.57000	4.58960	3B
			4.6411	4.5682	4.6346	4.5992	4.74975	4.73205	4.7513	4.6423	4.7227	4.6512	4.57025	4.58935	
4¾-12 or 4.750-12	UN	2A	4.6939	4.6578	4.6872	4.6692	4.74800	4.73660	4.7500	4.6959	4,7407	4.7046	4.66000	4.67800	2B
			4.6933	4.6569	4.6878	4.6701	4.74775	4.73685	4.7509	4.6965	4.7398	4.7040	4.66025	4.67775	
		3A	4.6959	4.6598	4.6909	4.6729	4.75000	4.73860	4.7500	4.6959	4.7386	4.7025	4.66000	4.66980	3B
			4.6953	4.6589	4.6915	4.6738	4.74975	4.73885	4.7509	4.6965	4.7377	4.7019	4.66025	4.66955	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/In.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4¾-16 or 4.750-16	UN	2A	4.7076	4.6805	4.7015	4.6880	4.74820	4.73880	4.7500	4.7094	4.7444	4.7173	4.68200	4.69600	2B
			4.7070	4.6796	4.7021	4.6889	4.74795	4.73905	4.7509	4.7100	4.7435	4.7167	4.68225	4.69575	
		3A	4.7094	4.6823	4.7049	4.6914	4.75000	4.74060	4.7500	4.7094	4.7424	4.7153	4.68200	4.69080	3B
			4.7088	4.6814	4.7055	4.6923	4.74975	4.74085	4.7509	4.7100	4.7415	4.7147	4.68225	4.69055	
4⅞-6 or 4.875-6	UN	2A	4.7636	4.6914	4.7532	4.7171	4.87190	4.85370	4.8750	4.7667	4.8524	4.7802	4.69500	4.72500	2B
			4.7630	4.6901	4.7538	4.7184	4.87165	4.85395	4.8763	4.7673	4.8511	4.7796	4.69525	4.72475	
		3A	4.7667	4.6945	4.7589	4.7228	4.87500	4.85680	4.8750	4.7667	4.8490	4.7768	4.69500	4.71460	3B
			4.7661	4.6932	4.7595	4.7241	4.87475	4.85705	4.8763	4.7673	4.8477	4.7762	4.69525	4.71435	
4⅞-12 or 4.875-12	UN	2A	4.8189	4.7828	4.8122	4.7942	4.87300	4.86160	4.8750	4.8209	4.8657	4.8296	4.78500	4.80300	2B
			4.8183	4.7819	4.8128	4.7951	4.87275	4.86185	4.8759	4.8215	4.8648	4.8290	4.78525	4.80275	
		3A	4.8209	4.7848	4.8159	4.7979	4.87500	4.86360	4.8750	4.8209	4.8636	4.8275	4.78500	4.79480	3B
			4.8203	4.7839	4.8165	4.7988	4.87475	4.86385	4.8759	4.8215	4.8627	4.8269	4.78525	4.79455	
4⅞-16 or 4.875-16	UN	2A	4.8326	4.8055	4.8265	4.8130	4.87320	4.86380	4.8750	4.8344	4.8694	4.8423	4.80700	4.82100	2B
			4.8320	4.8046	4.8271	4.8139	4.87295	4.86405	4.8759	4.8350	4.8685	4.8417	4.80725	4.82075	
		3A	4.8344	4.8073	4.8299	4.8164	4.87500	4.86560	4.8750	4.8344	4.8674	4.8403	4.80700	4.81580	3B
			4.8338	4.8064	4.8305	4.8173	4.87475	4.86585	4.8759	4.8350	4.8665	4.8397	4.80725	4.81555	
5-4 or 5.000-4	UN	2A	4.8340	4.7257	4.8221	4.7680	4.99640	4.97260	5.0000	4.8376	4.9613	4.8530	4.72900	4.76700	2B
			4.8334	4.7242	4.8227	4.7695	4.99615	4.97285	5.0015	4.8382	4.9598	4.8524	4.72925	4.76675	
		3A	4.8376	4.7293	4.8287	4.7746	5.00000	4.97620	5.0000	4.8376	4.9575	4.8492	4.72900	4.75940	3B
			4.8370	4.7278	4.8293	4.7761	4.99975	4.97645	5.0015	4.8382	4.9560	4.8486	4.72925	4.75915	
5-6 or 5.000-6	UN	2A	4.8886	4.8164	4.8781	4.8420	4.99690	4.97870	5.0000	4.8917	4.9775	4.9053	4.82000	4.85000	2B
			4.8880	4.8151	4.8787	4.8433	4.99665	4.97895	5.0013	4.8923	4.9762	4.9047	4.82025	4.84975	
		3A	4.8917	4.8195	4.8839	4.8478	5.00000	4.98180	5.0000	4.8917	4.9741	4.9019	4.82000	4.83960	3B
			4.8911	4.8182	4.8845	4.8491	4.99975	4.98205	5.0013	4.8923	4.9728	4.9013	4.82025	4.83935	
5-12 or 5.000-12	UN	2A	4.9439	4.9078	4.9372	4.9192	4.99800	4.98660	5.0000	4.9459	4.9907	4.9546	4.91000	4.92800	2B
			4.9433	4.9069	4.9378	4.9201	4.99775	4.98685	5.0009	4.9465	4.9898	4.9540	4.91025	4.92775	
		3A	4.9459	4.9098	4.9409	4.9229	5.00000	4.98860	5.0000	4.9459	4.9886	4.9525	4.91000	4.91980	3B
			4.9453	4.9089	4.9415	4.9238	4.99975	4.98885	5.0009	4.9465	4.9877	4.9519	4.91025	4.91955	
5-16 or 5.000-16	UN	2A	4.9576	4.9305	4.9515	4.9380	4.99820	4.98880	5.0000	4.9594	4.9944	4.9673	4.93200	4.94600	2B
			4.9570	4.9296	4.9521	4.9389	4.99795	4.98905	5.0009	4.9600	4.9935	4.9667	4.93225	4.94575	
		3A	4.9594	4.9323	4.9549	4.9414	5.00000	4.99060	5.0000	4.9594	4.9924	4.9653	4.93200	4.94080	3B
			4.9588	4.9314	4.9555	4.9423	4.99975	4.99085	5.0009	4.9600	4.9915	4.9647	4.93225	4.94055	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5⅛-6 or 5.125-6	UN	2A	5.0135	4.9413	5.0030	4.9669	5.12180	5.10360	5.1250	5.0167	5.1026	5.0304	4.94500	4.97500	2B
			5.0129	4.9400	5.0036	4.9682	5.12155	5.10385	5.1263	5.0173	5.1013	5.0298	4.94525	4.97475	
		3A	5.0167	4.9445	5.0088	4.9727	5.12500	5.10680	5.1250	5.0167	5.0992	5.0270	4.94500	4.96460	3B
			5.0161	4.9432	5.0094	4.9740	5.12475	5.10705	5.1263	5.0173	5.0979	5.0264	4.94525	4.96435	
5⅛-12 or 5.125-12	UN	2A	5.0689	5.0328	5.0622	5.0442	5.12300	5.11160	5.1250	5.0709	5.1157	5.0796	5.03500	5.05300	2B
			5.0683	5.0319	5.0628	5.0451	5.12275	5.11185	5.1259	5.0715	5.1148	5.0790	5.03525	5.05275	
		3A	5.0709	5.0348	5.0659	5.0479	5.12500	5.11360	5.1250	5.0709	5.1136	5.0775	5.03500	5.04480	3B
			5.0703	5.0339	5.0665	5.0488	5.12475	5.11385	5.1259	5.0715	5.1127	5.0769	5.03525	5.04455	
5⅛-16 or 5.125-16	UN	2A	5.0826	5.0555	5.0765	5.0630	5.12320	5.11380	5.1250	5.0844	5.1194	5.0923	5.05700	5.07100	2B
			5.0820	5.0546	5.0771	5.0639	5.12295	5.11405	5.1259	5.0850	5.1185	5.0917	5.05725	5.07075	
		3A	5.0844	5.0573	5.0799	5.0664	5.12500	5.11560	5.1250	5.0844	5.1174	5.0903	5.05700	5.06580	3B
			5.0838	5.0564	5.0805	5.0673	5.12475	5.11585	5.1259	5.0850	5.1165	5.0897	5.05725	5.06555	
5¼-4 or 5.250-4	UN	2A	5.0840	4.9757	5.0720	5.0179	5.24640	5.22260	5.2500	5.0876	5.2115	5.1032	4.97900	5.01700	2B
			5.0834	4.9742	5.0726	5.0194	5.24615	5.22285	5.2515	5.0882	5.2100	5.1026	4.97925	5.01675	
		3A	5.0876	4.9793	5.0786	5.0245	5.25000	5.22620	5.2500	5.0876	5.2076	5.0993	4.97900	5.00940	3B
			5.0870	4.9778	5.0792	5.0260	5.24975	5.22645	5.2515	5.0882	5.2061	5.0987	4.97925	5.00915	
5¼-6 or 5.250-6	UN	2A	5.1385	5.0663	5.1279	5.0918	5.24680	5.22860	5.2500	5.1417	5.2277	5.1555	5.07000	5.10000	2B
			5.1379	5.0650	5.1285	5.0931	5.24655	5.22885	5.2513	5.1423	5.2264	5.1549	5.07025	5.09975	
		3A	5.1417	5.0695	5.1338	5.0977	5.25000	5.23180	5.2500	5.1417	5.2242	5.1520	5.07000	5.08960	3B
			5.1411	5.0682	5.1344	5.0990	5.25975	5.23205	5.2513	5.1423	5.2229	5.1514	5.07025	5.08935	
5¼-12 or 5.250-12	UN	2A	5.1939	5.1578	5.1872	5.1692	5.24800	5.23660	5.2500	5.1959	5.2407	5.2046	5.16000	5.17800	2B
			5.1933	5.1569	5.1878	5.1701	5.24775	5.23685	5.2509	5.1965	5.2398	5.2040	5.16025	5.17775	
		3A	5.1959	5.1598	5.1909	5.1729	5.25000	5.23860	5.2500	5.1959	5.2386	5.2025	5.16000	5.16980	3B
			5.1953	5.1589	5.1915	5.1738	5.24975	5.23885	5.2509	5.1965	5.2377	5.2019	5.16025	5.16955	
5¼-16 or 5.250-16	UN	2A	5.2076	5.1805	5.2015	5.1880	5.24820	5.23880	5.2500	5.2094	5.2444	5.2173	5.18200	5.19600	2B
			5.2070	5.1796	5.2021	5.1889	5.24795	5.23905	5.2509	5.2100	5.2435	5.2167	5.18225	5.19575	
		3A	5.2094	5.1823	5.2049	5.1914	5.25000	5.24060	5.2500	5.2094	5.2424	5.2153	5.18200	5.19080	3B
			5.2088	5.1814	5.2055	5.1923	5.24975	5.24085	5.2509	5.2100	5.2415	5.2147	5.18225	5.19055	
5⅜-6 or 5.375-6	UN	2A	5.2635	5.1913	5.2529	5.2168	5.37180	5.35360	5.3750	5.2667	5.3527	5.2805	5.19500	5.22500	2B
			5.2629	5.1900	5.2535	5.2181	5.37155	5.35385	5.3763	5.2673	5.3514	5.2799	5.19525	5.22475	
		3A	5.2667	5.1945	5.2587	5.2226	5.37500	5.35680	5.3750	5.2667	5.3493	5.2771	5.19500	5.21460	3B
			5.2661	5.1932	5.2593	5.2239	5.37475	5.35705	5.3763	5.2673	5.3480	5.2765	5.19525	5.21435	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5⅜-12 or 5.375-12	UN	2A	5.3189	5.2828	5.3122	5.2942	5.37300	5.36160	5.3750	5.3209	5.3657	5.3296	5.28500	5.30300	2B
			5.3183	5.2819	5.3128	5.2951	5.37275	5.36185	5.3759	5.3215	5.3648	5.3290	5.28525	5.30275	
		3A	5.3209	5.2848	5.3159	5.2979	5.37500	5.36360	5.3750	5.3209	5.3636	5.3275	5.28500	5.29480	3B
			5.3203	5.2839	5.3165	5.2988	5.37475	5.36385	5.3759	5.3215	5.3627	5.3269	5.28525	5.29455	
5⅜-16 or 5.375-16	UN	2A	5.3326	5.3055	5.3265	5.3130	5.37320	5.36380	5.3750	5.3344	5.3694	5.3423	5.30700	5.32100	2B
			5.3320	5.3046	5.3271	5.3139	5.37295	5.36405	5.3759	5.3350	5.3685	5.3417	5.30725	5.32075	
		3A	5.3344	5.3073	5.3299	5.3164	5.37500	5.36560	5.3750	5.3344	5.3674	5.3403	5.30700	5.31580	3B
			5.3338	5.3064	5.3305	5.3173	5.37475	5.36585	5.3759	5.3350	5.3665	5.3397	5.30725	5.31555	
5½-4 or 5.500-4	UN	2A	5.3340	5.2257	5.3219	5.2678	5.49640	5.47260	5.5000	5.3376	5.4617	5.3534	5.22900	5.26700	2B
			5.3334	5.2242	5.3225	5.2693	5.49615	5.47285	5.5015	5.3382	5.4602	5.3528	5.22925	5.26675	
		3A	5.3376	5.2293	5.3285	5.2744	5.50000	5.47620	5.5000	5.3376	5.4577	5.3494	5.22900	5.25940	3B
			5.3370	5.2278	5.3291	5.2759	5.49975	5.47645	5.5015	5.3382	5.4562	5.3488	5.22925	5.25915	
5½-6 or 5.500-6	UN	2A	5.3885	5.3163	5.3778	5.3417	5.49680	5.47860	5.5000	5.3917	5.4778	5.4056	5.32000	5.35000	2B
			5.3879	5.3150	5.3784	5.3430	5.49655	5.47885	5.5013	5.3923	5.4765	5.4050	5.32025	5.34975	
		3A	5.3917	5.3195	5.3837	5.3476	5.50000	5.48180	5.5000	5.3917	5.4743	5.4021	5.32000	5.33960	3B
			5.3911	5.3182	5.3843	5.3489	5.49975	5.48205	5.5013	5.3923	5.4730	5.4015	5.32025	5.33935	
5½-12 or 5.500-12	UN	2A	5.4439	5.4078	5.4372	5.4192	5.49800	5.48660	5.5000	5.4459	5.4907	5.4546	5.41000	5.42800	2B
			5.4433	5.4069	5.4378	5.4201	5.49775	5.48685	5.5009	5.4465	5.4898	5.4540	5.41025	5.42775	
		3A	5.4459	5.4098	5.4409	5.4229	5.50000	5.48860	5.5000	5.4459	5.4886	5.4525	5.41000	5.41980	3B
			5.4453	5.4089	5.4415	5.4238	5.49975	5.48885	5.5009	5.4465	5.4877	5.4519	5.41025	5.41955	
5½-16 or 5.500-16	UN	2A	5.4576	5.4305	5.4515	5.4380	5.49820	5.48880	5.5000	5.4594	5.4944	5.4673	5.43200	5.44600	2B
			5.4570	5.4296	5.4521	5.4389	5.49795	5.48905	5.5009	5.4600	5.4935	5.4667	5.43225	5.44575	
		3A	5.4594	5.4323	5.4549	5.4414	5.50000	5.49060	5.5000	5.4594	5.4924	5.4653	5.43200	5.44080	3B
			5.4588	5.4314	5.4555	5.4423	5.49975	5.49085	5.5009	5.4600	5.4915	5.4647	5.43225	5.44055	
5⅝-6 or 5.625-6	UN	2A	5.5135	5.4413	5.5027	5.4666	5.62180	5.60360	5.6250	5.5167	5.6029	5.5307	5.44500	5.47500	2B
			5.5129	5.4400	5.5033	5.4679	5.62155	5.60385	5.6263	5.5173	5.6016	5.5301	5.44525	5.47475	
		3A	5.5167	5.4445	5.5086	5.4725	5.62500	5.60680	5.6250	5.5167	5.5994	5.5272	5.44500	5.46460	3B
			5.5161	5.4432	5.5092	5.4738	5.62475	5.60705	5.6263	5.5173	5.5981	5.5266	5.44525	5.46435	
5⅝-12 or 5.625-12	UN	2A	5.5688	5.5327	5.5619	5.5439	5.62290	5.61150	5.6250	5.5709	5.6160	5.5799	5.53500	5.55300	2B
			5.5682	5.5318	5.5625	5.5448	5.62265	5.61175	5.6259	5.5715	5.6151	5.5793	5.53525	5.55275	
		3A	5.5709	5.5348	5.5657	5.5477	5.62500	5.61360	5.6250	5.5709	5.6137	5.5776	5.53500	5.54480	3B
			5.5703	5.5339	5.5663	5.5486	5.62475	5.61385	5.6259	5.5715	5.6128	5.5770	5.53525	5.54455	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5⅝-16 or 5.625-16	UN	2A	5.5825	5.5554	5.5763	5.5628	5.62310	5.61370	5.6250	5.5844	5.6196	5.5925	5.55700	5.57100	2B
			5.5819	5.5545	5.5769	5.5637	5.62285	5.61395	5.6259	5.5850	5.6187	5.5919	5.55725	5.57075	
		3A	5.5844	5.5573	5.5797	5.5662	5.62500	5.61560	5.6250	5.5844	5.6176	5.5905	5.55700	5.56580	3B
			5.5838	5.5564	5.5803	5.5671	5.62475	5.61585	5.6259	5.5850	5.6167	5.5899	5.55725	5.56555	
5¾-4 or 5.750-4	UN	2A	5.5839	5.4756	5.5717	5.5176	5.74630	5.72250	5.7500	5.5876	5.7118	5.6035	5.47900	5.51700	2B
			5.5833	5.4741	5.5723	5.5191	5.74605	5.72275	5.7515	5.5882	5.7103	5.6029	5.47925	5.51675	
		3A	5.5876	5.4793	5.5784	5.5243	5.75000	5.72620	5.7500	5.5876	5.7078	5.5995	5.47900	5.50940	3B
			5.5870	5.4778	5.5790	5.5258	5.74975	5.72645	5.7515	5.5882	5.7063	5.5989	5.47925	5.50915	
5¾-6 or 5.750-6	UN	2A	5.6385	5.5663	5.6277	5.5916	5.74680	5.72860	5.7500	5.6417	5.7280	5.6558	5.57000	5.60000	2B
			5.6379	5.5650	5.6283	5.5929	5.74655	5.72885	5.7513	5.6423	5.7267	5.6552	5.57025	5.59975	
		3A	5.6417	5.5695	5.6336	5.5975	5.75000	5.73180	5.7500	5.6417	5.7245	5.6523	5.57000	5.58960	3B
			5.6411	5.5682	5.6342	5.5988	5.74975	5.73205	5.7513	5.6423	5.7232	5.6517	5.57025	5.58935	
5¾-12 or 5.750-12	UN	2A	5.6938	5.6577	5.6869	5.6689	5.74790	5.73650	5.7500	5.6959	5.7410	5.7049	5.66000	5.67800	2B
			5.6932	5.6568	5.6875	5.6698	5.74765	5.73675	5.7509	5.6965	5.7401	5.7043	5.66025	5.67775	
		3A	5.6959	5.5698	5.6907	5.6727	5.75000	5.73860	5.7500	5.6959	5.7387	5.7026	5.66000	5.66980	3B
			5.6953	5.6589	5.6913	5.6736	5.74975	5.73885	5.7509	5.6965	5.7378	5.7020	5.66025	5.66955	
5¾-16 or 5.750-16	UN	2A	5.7075	5.6804	5.7013	5.6878	5.74810	5.73870	5.7500	5.7094	5.7446	5.7175	5.68200	5.69600	2B
			5.7069	5.6795	5.7019	5.6887	5.74785	5.73895	5.7509	5.7100	5.7437	5.7169	5.68225	5.69575	
		3A	5.7094	5.6823	5.7047	5.6912	5.75000	5.74060	5.7500	5.7094	5.7426	5.7155	5.68200	5.69080	3B
			5.7088	5.6814	5.7053	5.6921	5.74975	5.74085	5.7509	5.7100	5.7417	5.7149	5.68225	5.69055	
5⅞-6 or 5.875-6	UN	2A	5.7634	5.6912	5.7525	5.7164	5.87170	5.85350	5.8750	5.7667	5.8531	5.7809	5.69500	5.72500	2B
			5.7628	5.6899	5.7531	5.7177	5.87145	5.85375	5.8763	5.7673	5.8518	5.7803	5.69525	5.72475	
		3A	5.7667	5.6945	5.7585	5.7224	5.87500	5.85680	5.8750	5.7667	5.8495	5.7773	5.69500	5.71460	3B
			5.7661	5.6932	5.7591	5.7237	5.87475	5.85705	5.8763	5.7673	5.8482	5.7767	5.69525	5.71435	

TABLE 10 GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	Gages for External Threads						Gages for Internal Threads						Class
			X Thread Gages				Z Plain Gages for Major Diameter		X Thread Gages				Z Plain Gages for Minor Diameter		
			GO		NOT GO (LO)				GO		NOT GO (HI)				
			Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	GO	NOT GO	Major Diam.	Pitch Diam.	Major Diam.	Pitch Diam.	GO	NOT GO	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5⅞-12 or 5.875-12	UN	2A	5.8188	5.7827	5.8119	5.7939	5.87290	5.86150	5.8750	5.8209	5.8660	5.8299	5.78500	5.80300	2B
			5.8182	5.7818	5.8125	5.7948	5.87265	5.86175	5.8759	5.8215	5.8651	5.8293	5.78525	5.80275	
		3A	5.8209	5.7848	5.8157	5.7977	5.87500	5.86360	5.8750	5.8209	5.8637	5.8276	5.78500	5.79480	3B
			5.8203	5.7839	5.8163	5.7986	5.87475	5.86385	5.8759	5.8215	5.8628	5.8270	5.78525	5.79455	
5⅞-16 or 5.875-16	UN	2A	5.8325	5.8054	5.8263	5.8128	5.87310	5.86370	5.8750	5.8344	5.8696	5.8425	5.80700	5.82100	2B
			5.8319	5.8045	5.8269	5.8137	5.87285	5.86395	5.8759	5.8350	5.8687	5.8419	5.80725	5.82075	
		3A	5.8344	5.8073	5.8297	5.8162	5.87500	5.86560	5.8750	5.8344	5.8676	5.8405	5.80700	5.81580	3B
			5.8338	5.8064	5.8303	5.8171	5.87475	5.86585	5.8759	5.8350	5.8667	5.8399	5.80725	5.81555	
6-4 or 6.000-4	UN	2A	5.8339	5.7256	5.8215	5.7674	5.99630	5.97250	6.0000	5.8376	5.9620	5.8537	5.72900	5.76700	2B
			5.8333	5.7241	5.8221	5.7689	5.99605	5.97275	6.0015	5.8382	5.9605	5.8531	5.72925	5.76675	
		3A	5.8376	5.7293	5.8283	5.7742	6.00000	5.97620	6.0000	5.8376	5.9579	5.8496	5.72900	5.75940	3B
			5.8370	5.7278	5.8289	5.7757	5.99975	5.97645	6.0015	5.8382	5.9564	5.8490	5.72925	5.75915	
6-6 or 6.000-6	UN	2A	5.8884	5.8162	5.8775	5.8414	5.99670	5.97850	6.0000	5.8917	5.9781	5.9059	5.82000	5.85000	2B
			5.8878	5.8149	5.8781	5.8427	5.99645	5.97875	6.0013	5.8923	5.9768	5.9053	5.82025	5.84975	
		3A	5.8917	5.8195	5.8835	5.8474	6.00000	5.98180	6.0000	5.8917	5.9746	5.9024	5.82000	5.83960	3B
			5.8911	5.8182	5.8841	5.8487	5.99975	5.98205	6.0013	5.8923	5.9733	5.9018	5.82025	5.83935	
6-12 or 6.000-12	UN	2A	5.9438	5.9077	5.9369	5.9189	5.99790	5.98650	6.0000	5.9459	5.9910	5.9549	5.91000	5.92800	2B
			5.9432	5.9068	5.9375	5.9198	5.99765	5.98675	6.0009	5.9465	5.9901	5.9543	5.91025	5.92775	
		3A	5.9459	5.9098	5.9407	5.9227	6.00000	5.98860	6.0000	5.9459	5.9887	5.9526	5.91000	5.91980	3B
			5.9453	5.9089	5.9413	5.9236	5.99975	5.98885	6.0009	5.9465	5.9878	5.9520	5.91025	5.91955	
6-16 or 6.000-16	UN	2A	5.9575	5.9304	5.9513	5.9378	5.99810	5.98870	6.0000	5.9594	5.9946	5.9675	5.93200	5.94600	2B
			5.9569	5.9295	5.9519	5.9387	5.99785	5.98895	6.0009	5.9600	5.9937	5.9669	5.93225	5.94575	
		3A	5.9594	5.9323	5.9547	5.9412	6.00000	5.99060	6.0000	5.9594	5.9926	5.9655	5.93200	5.94080	3B
			5.9588	5.9314	5.9553	5.9421	5.99975	5.99085	6.0009	5.9600	5.9917	5.9649	5.93225	5.94055	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
0-80 or 0.060-80	UNF	2A	0.0561	0.0595	0.0514	0.0550	0.0584	0.0496	...	...	...	...	...
			.0558	.0598	.0513	.0547	.0587	.0497	...	...	...	...	...
		3A	.0566	.0600	.0519	.0560	.0594	.0506	...	...	...	...	...
			.0563	.0603	.0518	.0557	.0597	.0507	...	...	...	...	...
1-64 or 0.073-64	UNC	2A	.0684	.0724	.0623	.0671	.0718	.0603	...	...	...	...	...
			.0681	.0727	.0622	.0668	.0721	.0604	...	...	...	...	...
		3A	.0690	.0730	.0629	.0682	.0729	.0614	...	...	...	...	...
			.0687	.0733	.0628	.0679	.0732	.0615	...	...	...	...	...
1-72 or 0.073-72	UNF	2A	.0687	.0724	.0634	.0675	.0715	.0615	...	...	...	...	...
			.0684	.0727	.0633	.0672	.0718	.0616	...	...	...	...	...
		3A	.0693	.0730	.0640	.0686	.0726	.0626	...	...	...	...	...
			.0690	.0733	.0639	.0683	.0729	.0627	...	...	...	...	...
2-56 or 0.086-56	UNC	2A	.0810	.0854	.0738	.0794	.0852	.0717	...	...	...	...	...
			.0807	.0857	.0737	.0791	.0855	.0718	...	...	...	...	...
		3A	.0816	.0860	.0744	.0805	.0860	.0728	...	...	...	...	...
			.0813	.0863	.0743	.0802	.0863	.0729	...	...	...	...	...
2-64 or 0.086-64	UNF	2A	0.814	.0854	.0753	.0801	.0848	.0733	...	...	...	...	...
			.0811	.0857	.0752	.0798	.0851	.0734	...	...	...	...	...
		3A	.0820	.0860	.0759	.0812	.0859	.0744	...	...	...	...	...
			.0817	.0863	.0758	.0809	.0862	.0745	...	...	...	...	...
3-48 or 0.099-48	UNC	2A	.0934	.0983	.0848	.0915	.0983	.0825	...	...	...	...	...
			.0931	.0986	.0847	.0912	.0986	.0826	...	...	...	...	...
		3A	.0941	.0990	.0855	.0928	.0990	.0838	...	...	...	...	...
			.0938	.0993	.0854	.0925	.0993	.0839	...	...	...	...	...
3-56 or 0.099-56	UNF	2A	.0939	.0983	.0867	.0922	.0980	.0845	...	...	...	...	...
			.0936	.0986	.0866	.0919	.0983	.0846	...	...	...	...	...
		3A	.0946	.0990	.0874	.0935	.0990	.0858	...	...	...	...	...
			.0943	.0993	.0873	.0932	.0993	.0859	...	...	...	...	...
4-40 or 0.112-40	UNC	2A	.1056	.1112	.0950	.1033	.1112	.0925	...	...	...	...	...
			.1053	.1115	.0949	.1030	.1115	.0926	...	...	...	...	...
		3A	.1064	.1120	.0958	.1047	.1120	.0939	...	...	...	...	...
			.1061	.1123	.0957	.1044	.1123	.0940	...	...	...	...	...

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4-48 or 0.112-48	UNF	2A	0.1064	0.1113	0.0978	0.1044	0.1113	0.0954	...	...	...	...	...
			.1061	.1116	.0977	.1041	.1116	.0955	...	...	...	...	...
		3A	.1071	.1120	.0985	.1057	.1120	.0967	...	...	...	...	...
			.1068	.1123	.0984	.1054	.1123	.0968	...	...	...	...	...
5-40 or 0.125-40	UNC	2A	.1186	.1242	.1080	.1162	.1242	.1054	...	...	...	...	...
			.1183	.1245	.1079	.1159	.1245	.1055	...	...	...	...	...
		3A	.1194	.1250	.1088	.1177	.1250	.1069	...	...	...	...	...
			.1191	.1253	.1087	.1174	.1253	.1070	...	...	...	...	...
5-44 or 0.125-44	UNF	2A	.1191	.1243	.1095	.1168	.1243	.1070	...	...	...	...	...
			.1183	.1246	.1094	.1165	.1246	.1071	...	...	...	...	...
		3A	.1198	.1250	.1102	.1181	.1250	.1083	...	...	...	...	...
			.1195	.1253	.1101	.1178	.1253	.1084	...	...	...	...	...
6-32 or 0.138-32	UNC	2A	.1307	.1372	.1169	.1276	.1372	.1141	...	...	...	...	...
			.1304	.1375	.1168	.1273	.1375	.1142	...	...	...	...	...
		3A	.1315	.1380	.1177	.1291	.1380	.1156	...	...	...	...	...
			.1312	.1383	.1176	.1288	.1383	.1157	...	...	...	...	...
6-40 or 0.138-40	UNF	2A	.1316	.1372	.1210	.1292	.1372	.1184	...	...	...	...	...
			.1313	.1375	.1209	.1289	.1375	.1185	...	...	...	...	...
		3A	.1324	.1380	.1218	.1306	.1380	.1198	...	...	...	...	...
			.1321	.1383	.1217	.1303	.1383	.1199	...	...	...	...	...
8-32 or 0.164-32	UNC	2A	.1566	.1631	.1428	.1534	.1631	.1399	...	...	...	...	...
			.1563	.1634	.1427	.1531	.1634	.1400	...	...	...	...	...
		3A	.1575	.1640	.1437	.1550	.1640	.1415	...	...	...	...	...
			.1572	.1643	.1436	.1547	.1643	.1416	...	...	...	...	...
8-36 or 0.164-36	UNF	2A	.1572	.1632	.1452	.1544	.1632	.1424	...	...	...	...	...
			.1569	.1635	.1451	.1541	.1635	.1425	...	...	...	...	...
		3A	.1580	.1640	.1460	.1559	.1640	.1439	...	...	...	...	...
			.1577	.1643	.1459	.1556	.1643	.1440	...	...	...	...	...
10-24 or 0.190-24	UNC	2A	.1811	.1890	.1619	.1766	.1890	.1586	.1629	.1450	.1672	.1560	2B
			.1806	.1895	.1618	.1761	.1895	.1587	.1630	.1445	.1671	.1555	
		3A	.1821	.1900	.1629	.1784	.1900	.1604	.1629	.1450	.1661	.1555	3B
			.1816	.1905	.1628	.1779	.1905	.1605	.1630	.1445	.1660	.1550	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
10-32 or 0.190-32	UNF	2A	0.1826	0.1891	0.1688	0.1793	0.1891	0.1658	0.1697	0.1560	0.1736	0.1640	2B
			.1823	.1894	.1687	.1790	.1894	.1659	.1698	.1557	.1735	.1637	
		3A	.1835	.1900	.1697	.1809	.1900	.1674	.1697	.1560	.1726	.1641	3B
			.1832	.1903	.1696	.1806	.1903	.1675	.1698	.1557	.1725	.1638	
12-24 or 0.216-24	UNC	2A	.2071	.2150	.1879	.2025	.2150	.1845	.1889	.1710	.1933	.1810	2B
			.2066	.2155	.1878	.2020	.2155	.1846	.1890	.1705	.1932	.1805	
		3A	.2081	.2160	.1889	.2043	.2160	.1863	.1889	.1710	.1922	.1807	3B
			.2076	.2165	.1888	.2038	.2165	.1864	.1890	.1705	.1921	.1802	
12-28 or 0.216-28	UNF	2A	.2079	.2150	.1918	.2041	.2150	.1886	.1928	.1770	.1970	.1860	2B
			.2074	.2155	.1917	.2036	.2155	.1887	.1929	.1765	.1969	.1855	
		3A	.2089	.2160	.1928	.2059	.2160	.1904	.1928	.1770	.1959	.1857	3B
			.2084	.2165	.1927	.2054	.2165	.1905	.1929	.1765	.1958	.1852	
12-32 or 0.216-32	UNEF	2A	.2086	.2151	.1948	.2052	.2151	.1917	.1957	.1820	.1998	.1900	2B
			.2083	.2154	.1947	.2049	.2154	.1918	.1958	.1817	.1997	.1897	
		3A	.2095	.2160	.1957	.2068	.2160	.1933	.1957	.1820	.1988	.1895	3B
			.2092	.2163	.1956	.2065	.2163	.1934	.1958	.1817	.1987	.1892	
1/4-20 or 0.250-20	UNC	1A	.2399	.2489	.2164	.2325	.2489	.2108	.2175	.1960	.2248	.2070	1B
			.2394	.2494	.2163	.2320	.2494	.2109	.2176	.1955	.2247	.2065	
		2A	.2399	.2489	.2164	.2344	.2489	.2127	.2175	.1960	.2224	.2070	2B
			.2394	.2494	.2163	.2339	.2494	.2128	.2176	.1955	.2223	.2065	
		3A	.2410	.2500	.2175	.2364	.2500	.2147	.2175	.1960	.2211	.2067	3B
			.2405	.2505	.2174	.2359	.2505	.2148	.2176	.1955	.2210	.2062	
1/4-28 or 0.250-28	UNF	1A	.2419	.2490	.2258	.2363	.2490	.2208	.2268	.2110	.2333	.2200	1B
			.2414	.2495	.2257	.2358	.2495	.2209	.2269	.2105	.2332	.2195	
		2A	.2419	.2490	.2258	.2380	.2490	.2225	.2268	.2110	.2311	.2200	2B
			.2414	.2495	.2257	.2375	.2495	.2226	.2269	.2105	.2310	.2195	
		3A	.2429	.2500	.2268	.2398	.2500	.2243	.2268	.2110	.2300	.2190	3B
			.2424	.2505	.2267	.2393	.2505	.2244	.2269	.2105	.2299	.2185	
1/4-32 or 0.250-32	UNEF	2A	.2425	.2490	.2287	.2390	.2490	.2255	.2297	.2160	.2339	.2240	2B
			.2422	.2493	.2286	.2387	.2493	.2256	.2298	.2157	.2338	.2237	
		3A	.2435	.2500	.2297	.2408	.2500	.2273	.2297	.2160	.2328	.2229	3B
			.2432	.2503	.2296	.2405	.2503	.2274	.2298	.2157	.2327	.2226	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5/16-18 or 0.3125-18	UNC	1A	0.3016	0.3113	0.2752	0.2932	0.3113	0.2691	0.2764	0.2520	0.2843	0.2650	1B
			.3011	.3118	.2751	.2927	.3118	.2692	.2765	.2515	.2842	.2645	
		2A	.3016	.3113	.2752	.2953	.3113	.2712	.2764	.2520	.2817	.2650	2B
			.3011	.3118	.2751	.2948	.3118	.2713	.2765	.2515	.2816	.2645	
		3A	.3028	.3125	.2764	.2975	.3125	.2734	.2764	.2520	.2803	.2630	3B
			.3023	.3130	.2763	.2970	.3130	.2735	.2765	.2515	.2802	.2625	
5/16-20 or 0.3125-20	UN	2A	.3023	.3113	.2788	.2965	.3113	.2748	.2800	.2580	.2852	.2700	2B
			.3018	.3118	.2787	.2960	.3118	.2749	.2801	.2575	.2851	.2695	
		3A	.3035	.3125	.2800	.2987	.3125	.2770	.2800	.2580	.2839	.2680	3B
			.3030	.3130	.2799	.2982	.3130	.2771	.2801	.2575	.2838	.2675	
5/16-24 or 0.3125-24	UNF	1A	.3035	.3114	.2843	.2968	.3114	.2788	.2854	.2670	.2925	.2770	1B
			.3030	.3119	.2842	.2963	.3119	.2789	.2855	.2665	.2924	.2765	
		2A	.3035	.3114	.2843	.2986	.3114	.2806	.2854	.2670	.2902	.2770	2B
			.3030	.3119	.2842	.2981	.3119	.2807	.2855	.2665	.2901	.2765	
		3A	.3046	.3125	.2854	.3007	.3125	.2827	.2854	.2670	.2890	.2754	3B
			.3041	.3130	.2853	.3002	.3130	.2828	.2855	.2665	.2889	.2749	
5/16-28 or 0.3125-28	UN	2A	.3044	.3115	.2883	.3004	.3115	.2849	.2893	.2740	.2937	.2820	2B
			.3039	.3120	.2882	.2999	.3120	.2850	.2894	.2735	.2936	.2815	
		3A	.3054	.3125	.2893	.3022	.3125	.2867	.2893	.2740	.2926	.2807	3B
			.3049	.3130	.2892	.3017	.3130	.2868	.2894	.2735	.2925	.2802	
5/16-32 or 0.3125-32	UNEF	2A	.3050	.3115	.2912	.3015	.3115	.2880	.2922	.2790	.2964	.2860	2B
			.3047	.3118	.2911	.3012	.3118	.2881	.2923	.2787	.2963	.2857	
		3A	.3060	.3125	.2922	.3033	.3125	.2898	.2922	.2790	.2953	.2847	3B
			.3057	.3128	.2921	.3030	.3128	.2899	.2923	.2787	.2952	.2844	
3/8-16 or 0.375-16	UNC	1A	.3632	.3737	.3331	.3537	.3737	.3266	.3344	.3070	.3429	.3210	1B
			.3626	.3743	.3330	.3531	.3743	.3267	.3345	.3064	.3428	.3204	
		2A	.3632	.3737	.3331	.3558	.3737	.3287	.3344	.3070	.3401	.3210	2B
			.3626	.3743	.3330	.3552	.3743	.3288	.3345	.3064	.3400	.3204	
		3A	.3645	.3750	.3344	.3582	.3750	.3311	.3344	.3070	.3387	.3182	3B
			.3639	.3756	.3343	.3576	.3756	.3312	.3345	.3064	.3386	.3176	
3/8-20 or 0.375-20	UN	2A	.3648	.3738	.3413	.3589	.3738	.3372	.3425	.3210	.3479	.3320	2B
			.3643	.3743	.3412	.3584	.3743	.3373	.3426	.3205	.3478	.3315	
		3A	.3660	.3750	.3425	.3611	.3750	.3394	.3425	.3210	.3465	.3297	3B
			.3655	.3755	.3424	.3606	.3755	.3395	.3426	.3205	.3464	.3292	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3/8-24 or 0.375-24	UNF	1A	.3660	.3739	.3468	.3591	.3739	.3411	.3479	.3300	.3553	3400	1B
			.3655	.3744	.3467	.3586	.3744	.3412	.3480	.3295	.3552	.3395	
		2A	.3660	.3739	.3468	.3610	.3739	.3430	.3479	.3300	.3528	.3400	2B
			.3655	.3744	.3467	.3605	.3744	.3431	.3480	.3295	.3527	.3395	
		3A	.3671	.3750	.3479	.3630	.3750	.3450	.3479	.3300	.3516	.3372	3B
			.3666	.3755	.3478	.3625	.3755	.3451	.3480	.3295	.3515	.3367	
3/8-28 or 0.375-28	UN	2A	.3668	.3739	.3507	.3626	.3739	.3471	.3518	.3360	.3564	.3450	2B
			.3663	.3744	.3506	.3621	.3744	.3472	.3519	.3355	.3563	.3445	
		3A	.3679	.3750	.3518	.3646	.3750	.3491	.3518	.3360	.3553	.3426	3B
			.3674	.3755	.3517	.3641	.3755	.3492	.3519	.3355	.3552	.3421	
3/8-32 or 0.375-32	UNEF	2A	.3675	.3740	.3537	.3638	.3740	.3503	.3547	.3410	.3591	.3490	2B
			.3672	.3743	.3536	.3635	.3743	.3504	.3548	.3407	.3590	.3487	
		3A	.3685	.3750	.3547	.3657	.3750	.3522	.3547	.3410	.3580	.3469	3B
			.3682	.3753	.3546	.3654	.3753	.3523	.3548	.3407	.3579	.3466	
7/16-14 or 0.4375-14	UNC	1A	.4246	.4361	.38970	.4135	.4361	.38260	.39110	.3600	.40030	.3760	1B
			.4240	.4367	.38955	.4129	.4367	.38275	.39125	.3594	.40015	.3754	
		2A	.4246	.4361	.38970	.4159	.4361	.38500	.39110	.3600	.39720	.3760	2B
			.4240	.4367	.38955	.4153	.4367	.38515	.39125	.3594	.39705	.3754	
		3A	.4260	.4375	.39110	.4185	.4375	.38760	.39110	.3600	.39570	.3717	3B
			.4254	.4381	.39095	.4179	.4381	.38775	.39125	.3594	.39555	.3711	
7/16-16 or 0.4375-16	UN	2A	.4256	.4361	.3955	.4180	.4361	.3909	.3969	.3700	.4028	.3840	2B
			.4250	.4367	.3954	.4174	.4367	.3910	.3970	.3694	.4027	.3834	
		3A	.4270	.4375	.3969	.4206	.4375	.3935	.3969	.3700	.4014	.3800	3B
			.4264	.4381	.3968	.4200	.4381	.3936	.3970	.3694	.4013	.3794	
7/16-20 or 0.4375-20	UNF	1A	.4272	.4362	.4037	.4191	.4362	.3974	.4050	.3830	.4131	.3950	1B
			.4267	.4367	.4036	.4186	.4367	.3975	.4051	.3825	.4130	.3945	
		2A	.4272	.4362	.4037	.4212	.4362	.3995	.4050	.3830	.4104	.3950	2B
			.4267	.4367	.4036	.4207	.4367	.3996	.4051	.3825	.4103	.3945	
		3A	.4285	.4375	.4050	.4236	.4375	.4019	.4050	.3830	.4091	.3916	3B
			.4280	.4380	.4049	.4231	.4380	.4020	.4051	.3825	.4090	.3911	
7/16-28 or 0.4375-28	UNEF	2A	.4293	.4364	.4132	.4251	.4364	.4096	.4143	.3990	.4189	.4070	2B
			.4288	.4369	.4131	.4246	.4369	.4097	.4144	.3985	.4188	.4065	
		3A	.4304	.4375	.4143	.4271	.4375	.4116	.4143	.3990	.4178	.4051	3B
			.4299	.4380	.4142	.4266	.4380	.4117	.4144	.3985	.4177	.4046	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
7/16-32 or 0.4375-32	UN	2A	0.4300	0.4365	0.4162	0.4263	0.4365	0.4128	0.4172	0.4040	0.4216	0.4110	2B
			.4297	.4368	.4161	.4260	.4368	.4129	.4173	.4035	.4215	.4105	
		3A	.4310	.4375	.4172	.4282	.4375	.4147	.4172	.4040	.4205	.4094	3B
			.4307	.4378	.4171	.4279	.4378	.4148	.4173	.4035	.4204	.4089	
1/2-13 or 0.500-13	UNC	1A	.4863	.4985	.44850	.4744	.4985	.44110	.45000	.4170	.45970	.4340	1B
			.4857	.4991	.44835	.4738	.4991	.44125	.45015	.4164	.45955	.4334	
		2A	.4863	.4985	.44850	.4768	.4985	.44350	.45000	.4170	.45650	.4340	2B
			.4857	.4991	.44835	.4762	.4991	.44365	.45015	.4164	.45635	.4334	
		3A	.4878	.5000	.45000	.4796	.5000	.44630	.45000	.4170	.45480	.4284	3B
			.4872	.5006	.44985	.4790	.5006	.44645	.45015	.4164	.45465	.4278	
1/2-16 or 0.500-16	UN	2A	.4881	.4986	.4580	.4804	.4986	.4533	.4594	.4320	.4655	.4460	2B
			.4875	.4992	.4579	.4798	.4992	.4534	.4595	.4314	.4654	.4454	
		3A	.4895	.5000	.4594	.4830	.5000	.4559	.4594	.4320	.4640	.4419	3B
			.4889	.5006	.4593	.4824	.5006	.4560	.4595	.4314	.4639	.4413	
1/2-20 or 0.500-20	UNF	1A	.4897	.4987	.4662	.4815	.4987	.4598	.4675	.4460	.4759	.4570	1B
			.4892	.4992	.4661	.4810	.4992	.4599	.4676	.4455	.4758	.4565	
		2A	.4897	.4987	.4662	.4836	.4987	.4619	.4675	.4460	.4731	.4570	2B
			.4892	.4992	.4661	.4831	.4992	.4620	.4676	.4455	.4730	.4565	
		3A	.4910	.5000	.4675	.4860	.5000	.4643	.4675	.4460	.4717	.4537	3B
			.4905	.5005	.4674	.4855	.5005	.4644	.4676	.4455	.4716	.4532	
1/2-28 or 0.500-28	UNEF	2A	.4918	.4989	.4757	.4875	.4989	.4720	.4768	.4610	.4816	.4700	2B
			.4913	.4994	.4756	.4870	.4994	.4721	.4769	.4605	.4815	.4695	
		3A	.4929	.5000	.4768	.4895	.5000	.4740	.4768	.4610	.4804	.4676	3B
			.4924	.5005	.4767	.4890	.5005	.4741	.4769	.4605	.4803	.4671	
1/2-32 or 0.500-32	UN	2A	.4925	.4990	.4787	.4887	.4990	.4752	.4797	.4660	.4842	.4740	2B
			.4922	.4993	.4786	.4884	.4993	.4753	.4798	.4657	.4841	.4737	
		3A	.4935	.5000	.4797	.4906	.5000	.4771	.4797	.4660	.4831	.4719	3B
			.4932	.5003	.4796	.4903	.5005	.4772	.4798	.4657	.4830	.4716	
9/16-12 or 0.5625-12	UNC	1A	.5480	.5609	.5068	.5351	.5609	.4990	.5084	.4720	.5186	.4900	1B
			.5474	.5615	.5066	.5345	.5615	.4992	.5086	.4714	.5184	.4894	
		2A	.5480	.5609	.5068	.5377	.5609	.5016	.5084	.4720	.5152	.4900	2B
			.5474	.5615	.5066	.5371	.5615	.5018	.5086	.4714	.5150	.4894	
		3A	.5496	.5625	.5084	.5406	.5625	.5045	.5084	.4720	.5135	.4843	3B
			.5490	.5631	.5082	.5400	.5631	.5047	.5086	.4714	.5133	.4837	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
9/16-16 or 0.5625-16	UN	2A	0.5506	0.5611	0.5205	0.5429	0.5611	0.5158	0.5219	0.4950	0.5280	0.5090	2B
			.5500	.5617	.5203	.5423	.5617	.5160	.5221	.4944	.5278	.5084	
		3A	.5520	.5625	.5219	.5455	.5625	.5184	.5219	.4950	.5265	.5040	3B
			.5514	.5631	.5217	.5449	.5631	.5186	.5221	.4944	.5263	.5034	
9/16-18 or 0.5625-18	UNF	1A	.5514	.5611	.52500	.5423	.5611	.51820	.52640	.5020	.53530	.5150	1B
			.5509	.5616	.52485	.5418	.5616	.51835	.52655	.5015	.53515	.5145	
		2A	.5514	.5611	.52500	.5446	.5611	.52050	.52640	.5020	.53230	.5150	2B
			.5509	.5616	.52485	.5441	.5616	.52065	.52655	.5015	.53215	.5145	
		3A	.5528	.5625	.52640	.5471	.5625	.52300	.52640	.5020	.53080	.5106	3B
			.5523	.5630	.52625	.5466	.5630	.52315	.52655	.5015	.53065	.5101	
9/16-20 or 0.5625-20	UN	2A	.5522	.5612	.52870	.5462	.5612	.52450	.53000	.5080	.53550	.5200	2B
			.5517	.5617	.52855	.5457	.5617	.52465	.53015	.5075	.53535	.5195	
		3A	.5535	.5625	.53000	.5485	.5625	.52680	.53000	.5080	.53410	.5162	3B
			.5530	.5630	.52985	.5480	.5630	.52695	.53015	.5075	.53395	.5157	
9/16-24 or 0.5625-24	UNEF	2A	.5534	.5613	.53420	.5483	.5613	.53030	.53540	.5170	.54050	.5270	2B
			.5529	.5618	.53405	.5478	.5618	.53045	.53555	.5165	.54035	.5265	
		3A	.5546	.5625	.53540	.5505	.5625	.53250	.53540	.5170	.53920	.5244	3B
			.5541	.5630	.53525	.5500	.5630	.53265	.53555	.5165	.53905	.5239	
9/16-28 or 0.5625-28	UN	2A	.5543	.5614	.53820	.5500	.5614	.53450	.53930	.5240	.54410	.5320	2B
			.5538	.5619	.53805	.5495	.5619	.53465	.53945	.5235	.54395	.5315	
		3A	.5554	.5625	.53930	.5520	.5625	.53650	.53930	.5240	.54290	.5301	3B
			.5549	.5630	.53915	.5515	.5630	.53665	.53945	.5235	.54275	.5296	
9/16-32 or 0.5625-32	UN	2A	.5550	.5615	.54120	.5512	.5615	.53770	.54220	.5290	.54670	.5360	2B
			.5545	.5620	.54105	.5507	.5620	.53785	.54235	.5285	.54655	.5355	
		3A	.5560	.5625	.54220	.5531	.5625	.53960	.54220	.5290	.54560	.5344	3B
			.5555	.5630	.54205	.5526	.5630	.53975	.54235	.5285	.54545	.5339	
5/8-11 or 0.625-11	UNC	1A	.6097	.6234	.5644	.5955	.6234	.5561	.5660	.5270	.5767	.5460	1B
			.6091	.6240	.5642	.5949	.6240	.5563	.5662	.5264	.5765	.5454	
		2A	.6097	.6234	.5644	.5983	.6234	.5589	.5660	.5270	.5732	.5460	2B
			.6091	.6240	.5642	.5977	.6240	.5591	.5662	.5264	.5730	.5454	
		3A	.6113	.6250	.5660	.6013	.6250	.5619	.5660	.5270	.5714	.5391	3B
			.6107	.6256	.5658	.6007	.6256	.5621	.5662	.5264	.5712	.5385	
5/8-12 or 0.625-12	UN	2A	.6105	.6234	.5693	.6000	.6234	.5639	.5709	.5350	.5780	.5530	2B
			.6099	.6240	.5691	.5994	.6240	.5641	.5711	.5344	.5778	.5524	
		3A	.6121	.6250	.5709	.6029	.6250	.5668	.5709	.5350	.5762	.5463	3B
			.6115	.6256	.5707	.6023	.6256	.5670	.5711	.5344	.5760	.5457	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5/8-16 or 0.625-16	UN	2A	0.6131	0.6236	0.5830	0.6053	0.6236	0.5782	0.5844	0.5570	0.5906	0.5710	2B
			.6125	.6242	.5828	.6047	.6242	.5784	.5846	.5564	.5904	.5704	
		3A	.6145	.6250	.5844	.6079	.6250	.5808	.5844	.5570	5890	.5662	3B
			.6139	.6256	.5842	.6073	.6256	.5810	.5846	.5564	.5888	.5656	
5/8-18 or 0.625-18	UNF	1A	.6139	.6236	.58750	.6046	.6236	.58050	.58890	.5650	.59800	.5780	1B
			.6134	.6241	.58735	.6041	.6241	.58065	.58905	.5645	.59785	.5775	
		2A	.6139	.6236	.58750	.6069	.6236	.58280	.58890	.5650	.59490	.5780	2B
			.6134	.6241	.58735	.6064	.6241	.58295	.58905	.5645	.59475	.5775	
		3A	.6153	.6250	.58890	.6095	.6250	.58540	.58890	.5650	.59340	.5730	3B
			.6148	.6255	.58875	.6090	.6255	.58555	.58905	.5645	.59325	.5725	
5/8-20 or 0.625-20	UN	2A	.6147	.6237	.59120	.6086	.6237	.58690	.59250	.5710	.59810	.5820	2B
			.6142	.6242	.59105	.6081	.6242	.58705	.59265	.5705	.59795	.5815	
		3A	.6160	.6250	.59250	.6110	.6250	.58930	.59250	.5710	.59670	.5787	3B
			.6155	.6255	.59235	.6105	.6255	.58945	.59265	.5705	.59655	.5782	
5/8-24 or 0.625-24	UNEF	2A	.6159	.6238	.59670	.6107	.6238	.59270	.59790	.5800	.60310	.5900	2B
			.6154	.6243	.59655	.6102	.6243	.59285	.59805	.5795	.60295	.5895	
		3A	.6171	.6250	.59790	.6129	.6250	.59490	.59790	.5800	.60180	.5869	3B
			.6166	.6255	.59775	.6124	.6255	.59505	.59805	.5795	.60165	.5864	
5/8-28 or 0.625-28	UN	2A	.6168	.6239	.60070	.6124	.6239	.59690	.60180	.5860	.60670	.5950	2B
			.6163	.6244	.60055	.6119	.6244	.59705	.60195	.5855	.60655	.5945	
		3A	.6179	.6250	.60180	.6145	.6250	.59900	.60180	.5860	.60550	.5926	3B
			.6174	.6255	.60165	.6140	.6255	.59915	.60195	.5855	.60535	.5921	
5/8-32 or 0.625-32	UN	2A	.6174	.6239	.60360	.6135	.6239	.60000	.60470	.5910	.60930	.5990	2B
			.6169	.6244	.60345	.6130	.6244	.60015	.60485	.5905	.60915	.5985	
		3A	.6185	.6250	.60470	.6155	.6250	.60200	.60470	.5910	.60820	.5969	3B
			.6180	.6255	.60455	.6150	.6255	.60215	.60485	.5905	.60805	.5964	
11/16-12 or 0.6875-12	UN	2A	.6730	.6859	.6318	.6625	.6859	.6264	.6334	.5970	.6405	.6150	2B
			.6724	.6865	.6316	.6619	.6865	.6266	.6336	.5964	.6403	.6144	
		3A	.6746	.6875	.6334	.6654	.6875	.6293	.6334	.5970	.6387	.6085	3B
			.6740	.6881	.6332	.6648	.6881	.6295	.6336	.5964	.6385	.6079	
11/16-16 or 0.6875-16	UN	2A	.6756	.6861	.6455	.6678	.6861	.6407	.6469	.6200	.6531	.6340	2B
			.6750	.6867	.6453	.6672	.6867	.6409	.6471	.6194	.6529	.6334	
		3A	.6770	.6875	.6469	.6704	.6875	.6433	.6469	.6200	.6515	.6284	3B
			.6764	.6881	.6467	.6698	.6881	.6435	.6471	.6194	.6513	.6278	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
11/16-20 or 0.6875-20	UN	2A	0.6772	0.6862	0.65370	0.6711	0.6862	0.64940	0.65500	0.6330	0.66060	0.6450	2B
			.6767	.6867	.65355	.6706	.6867	.64955	.65515	.6325	.66045	.6445	
		3A	.6785	.6875	.65500	.6735	.6875	.65180	.65500	.6330	.65920	.6412	3B
			.6780	.6880	.65485	.6730	.6880	.65195	.65515	.6325	.65905	.6407	
11/16-24 or 0.6875-24	UNEF	2A	.6784	.6863	.65920	.6732	.6863	.65520	.66040	.6420	.66560	.6520	2B
			.6779	.6868	.65905	.6727	.6868	.65535	.66055	.6415	.66545	.6515	
		3A	.6796	.6875	.66040	.6754	.6875	.65740	.66040	.6420	.66430	.6494	3B
			.6791	.6880	.66025	.6749	.6880	.65755	.66055	.6415	.66415	.6489	
11/16-28 or 0.6875-28	UN	2A	.6793	.6864	.66320	.6749	.6862	.65940	.66430	.6490	.66920	.6570	2B
			.6788	.6869	.66305	.6744	.6867	.65955	.66445	.6485	.66905	.6565	
		3A	.6804	.6875	.66430	.6770	.6875	.66150	.66430	.6490	.66800	.6551	3B
			.6799	.6880	.66415	.6765	.6880	.66165	.66445	.6485	.66785	.6546	
11/16-32 or 0.6875-32	UN	2A	.6799	.6864	.66610	.6760	.6864	.66250	.66720	.6540	.67180	.6610	2B
			.6794	.6869	.66595	.6755	.6869	.66265	.66735	.6535	.67165	.6605	
		3A	.6810	.6875	.66720	.6780	.6875	.66450	.66720	.6540	.67070	.6594	3B
			.6805	.6880	.66705	.6775	.6880	.66465	.66735	.6535	.67055	.6589	
3/4-10 or 0.750-10	UNC	1A	.7336	.7482	.6832	.7177	.7482	.6744	.6850	.6420	.6965	.6630	1B
			.7330	.7488	.6830	.7171	.7488	.6746	.6852	.6414	.6963	.6624	
		2A	.7336	.7482	.6832	.7206	.7482	.6773	.6850	.6420	.6927	.6630	2B
			.7330	.7488	.6830	.7200	.7488	.6775	.6852	.6414	.6925	.6624	
		3A	.7354	.7500	.6850	.7239	.7500	.6806	.6850	.6420	.6907	.6545	3B
			.7348	.7506	.6848	.7233	.7506	.6808	.6852	.6414	.6905	.6539	
3/4-12 or 0.750-12	UN	2A	.7354	.7483	.6942	.7248	.7483	.6887	.6959	.6600	.7031	.6780	2B
			.7348	.7489	.6940	.7242	.7489	.6889	.6961	.6594	.7029	.6774	
		3A	.7371	.7500	.6959	.7279	.7500	.6918	.6959	.6600	.7013	.6707	3B
			.7365	.7506	.6957	.7273	.7506	.6920	.6961	.6594	.7011	.6701	
3/4-16 or 0.750-16	UNF	1A	.7380	.7485	.7079	.7275	.7485	.7004	.7094	.6820	.7192	.6960	1B
			.7374	.7491	.7077	.7269	.7491	.7006	.7096	.6814	.7190	.6954	
		2A	.7380	.7485	.7079	.7300	.7485	.7029	.7094	.6820	.7159	.6960	2B
			.7374	.7491	.7077	.7294	.7491	.7031	.7096	.6814	.7157	.6954	
		3A	.7395	.7500	.7094	.7327	.7500	.7056	.7094	.6820	.7143	.6908	3B
			.7389	.7506	.7092	.7321	.7506	.7058	.7096	.6814	.7141	.6902	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3/4-20 or 0.750-20	UNEF	2A	0.7397	0.7487	0.71620	0.7335	0.7487	0.71180	0.71750	0.6960	0.72320	0.7070	2B
			.7392	.7492	.71605	.7330	.7492	.71195	.71765	.6955	.72305	.7065	
		3A	.7410	.7500	.71750	.7359	.7500	.71420	.71750	.6960	.72180	.7037	3B
			.7405	.7505	.71735	.7354	.7505	.71435	.71765	.6955	.72165	.7032	
3/4-28 or 0.750-28	UN	2A	.7417	.7488	.72560	.7373	.7488	.72180	.72680	.7110	.73180	.7200	2B
			.7412	.7493	.72545	.7368	.7493	.72195	.72695	.7105	.73165	.7195	
		3A	.7429	.7500	.72680	.7394	.7500	.72390	.72680	.7110	.73050	.7176	3B
			.7424	.7505	.72665	.7389	.7505	.72405	.72695	.7105	.73035	.7171	
3/4-32 or 0.750-32	UN	2A	.7424	.7489	.72860	.7385	.7489	.72500	.72970	.7160	.73440	.7240	2B
			.7419	.7494	.72845	.7380	.7494	.72515	.72985	.7155	.73425	.7235	
		3A	.7435	.7500	.72970	.7405	.7500	.72700	.72970	.7160	.73330	.7219	3B
			.7430	.7505	.72955	.7400	.7505	.72715	.72985	.7155	.73315	.7214	
13/16-12 or 0.8125-12	UN	2A	.7979	.8108	.7567	.7873	.8108	.7512	.7584	.7220	.7656	.7400	2B
			.7973	.8114	.7565	.7867	.8114	.7514	.7586	.7214	.7654	.7394	
		3A	.7996	.8125	.7584	.7904	.8125	.7543	.7584	.7220	.7638	.7329	3B
			.7990	.8131	.7582	.7898	.8131	.7545	.7586	.7214	.7636	.7323	
13/16-16 or 0.8125-16	UN	2A	.8005	.8110	.7704	.7926	.8110	.7655	.7719	.7450	.7782	.7590	2B
			.7999	.8116	.7702	.7920	.8116	.7657	.7721	.7444	.7780	.7584	
		3A	.8020	.8125	.7719	.7954	.8125	.7683	.7719	.7450	.7766	.7533	3B
			.8014	.8131	.7717	.7948	.8131	.7685	.7721	.7444	.7764	.7527	
13/16-20 or 0.8125-20	UNEF	2A	.8022	.8112	.77870	.7960	.8112	.77430	.78000	.7580	.78570	.7700	2B
			.8017	.8117	.77855	.7955	.8117	.77445	.78015	.7575	.78555	.7695	
		3A	.8035	.8125	.78000	.7984	.8125	.77670	.78000	.7580	.78430	.7662	3B
			.8030	.8130	.77985	.7979	.8130	.77685	.78015	.7575	.78415	.7657	
13/16-28 or 0.8125-28	UN	2A	.8042	.8113	.78810	.7998	.8113	.78430	.78930	.7740	.79430	.7820	2B
			.8037	.8118	.78795	.7993	.8118	.78445	.78945	.7735	.79415	.7815	
		3A	.8054	.8125	.78930	.8019	.8125	.78640	.78930	.7740	.79300	.7801	3B
			.8049	.8130	.78915	.8014	.8130	.78655	.78945	.7735	.79285	.7796	
13/16-32 or 0.8125-32	UN	2A	.8049	.8114	.79110	.8010	.8114	.78750	.79220	.7790	.79690	.7860	2B
			.8044	.8119	.79095	.8005	.8119	.78765	.79235	.7785	.79675	.7855	
		3A	.8060	.8125	.79220	.8030	.8125	.78950	.79220	.7790	.79580	.7844	3B
			.8055	.8130	.79205	.8025	.8130	.78965	.79235	.7785	.79565	.7839	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
7/8-9 or 0.875-9	UNC	1A	0.8573	0.8731	0.8009	0.8395	0.8731	0.7914	0.8028	0.7550	0.8151	0.7780	1B
			.8566	.8738	.8007	.8388	.8738	.7916	.8030	.7543	.8149	.7773	
		2A	.8573	.8731	.8009	.8427	.8731	.7946	.8028	.7550	.8110	.7780	2B
			.8566	.8738	.8007	.8420	.8738	.7948	.8030	.7543	.8108	.7773	
		3A	.8592	.8750	.8028	.8462	.8750	.7981	.8028	.7550	.8089	.7681	3B
			.8585	.8757	.8026	.8455	.8757	.7983	.8030	.7543	.8087	.7674	
7/8-12 or 0.875-12	UN	2A	.8604	.8733	.8192	.8498	.8733	.8137	.8209	.7850	.8281	.8030	2B
			.8598	.8739	.8190	.8492	.8739	.8139	.8211	.7844	.8279	.8024	
		3A	.8621	.8750	.8209	.8529	.8750	.8168	.8209	.7850	.8263	.7948	3B
			.8615	.8756	.8207	.8523	.8756	.8170	.8211	.7844	.8261	.7942	
7/8-14 or 0.875-14	UNF	1A	.8619	.8734	.8270	.8498	.8734	.8189	.8286	.7980	.8392	.8140	1B
			.8613	.8740	.8268	.8492	.8740	.8191	.8288	.7974	.8390	.8134	
		2A	.8619	.8734	.8270	.8525	.8734	.8216	.8286	.7980	.8356	.8140	2B
			.8613	.8740	.8268	.8519	.8740	.8218	.8288	.7974	.8354	.8134	
		3A	.8635	.8750	.8286	.8554	.8750	.8245	.8286	.7980	.8339	.8068	3B
			.8629	.8756	.8284	.8548	.8756	.8247	.8288	.7974	.8337	.8062	
7/8-16 or 0.875-16	UN	2A	.8630	.8735	.8329	.8551	.8735	.8280	.8344	.8070	.8407	.8210	2B
			.8624	.8741	.8327	.8545	.8741	.8282	.8346	.8064	.8405	.8204	
		3A	.8645	.8750	.8344	.8579	.8750	.8308	.8344	.8070	.8391	.8158	3B
			.8639	.8756	.8342	.8573	.8756	.8310	.8346	.8064	.8389	.8152	
7/8-20 or 0.875-20	UNEF	2A	.8647	.8737	.84120	.8585	.8737	.83680	.84250	.8210	.84820	.8320	2B
			.8642	.8742	.84105	.8580	.8742	.83695	.84265	.8205	.84805	.8315	
		3A	.8660	.8750	.84250	.8609	.8750	.83920	.84250	.8210	.84680	.8287	3B
			.8655	.8755	.84235	.8604	.8755	.83935	.84265	.8205	.84665	.8282	
7/8-28 or 0.875-28	UN	2A	.8667	.8738	.85060	.8623	.8738	.84680	.85180	.8360	.85680	.8450	2B
			.8662	.8743	.85045	.8613	.8743	.84695	.85195	.8355	.85665	.8445	
		3A	.8679	.8750	.85180	.8644	.8750	.84890	.85180	.8360	.85550	.8426	3B
			.8674	.8755	.85165	.8639	.8755	.84905	.85195	.8355	.85535	.8421	
7/8-32 or 0.875-32	UN	2A	.8674	.8739	.85360	.8635	.8739	.85000	.85470	.8410	.85940	.8490	2B
			.8669	.8744	.85345	.8630	.8744	.85015	.85485	.8405	.85925	.8485	
		3A	.8685	.8750	.85470	.8655	.8750	.85200	.85470	.8410	.85830	.8469	3B
			.8680	.8755	.85455	.8650	.8755	.85215	.85485	.8405	.85815	.8464	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
15/16-12 or 0.9375-12	UN	2A	0.9229	0.9358	0.8817	0.9121	0.9358	0.8760	0.8834	0.8470	0.8908	0.8650	B
			.9223	.9364	.8815	.9115	.9364	.8762	.8836	.8464	.8906	.8644	
		3A	.9246	.9375	.8834	.9153	.9375	.8792	.8834	.8470	.8889	.8575	3B
			.9240	.9381	.8832	.9147	.9381	.8794	.8836	.8464	.8887	.8569	
15/16-16 or 0.9375-16	UN	2A	.9255	.9360	.8954	.9175	.9360	.8904	.8969	.8700	.9034	.8840	2B
			.9249	.9366	.8952	.9169	.9366	.8906	.8971	.8694	.9032	.8834	
		3A	.9270	.9375	.8969	.9203	.9375	.8932	.8969	.8700	.9018	.8783	3B
			.9264	.9381	.8967	.9197	.9381	.8934	.8971	.8694	.9016	.8777	
15/16-20 or 0.9375-20	UNEF	2A	.9271	.9361	.90360	.9208	.9361	.89910	.90500	.8830	.91090	.8950	2B
			.9266	.9366	.90345	.9203	.9366	.89925	.90515	.8825	.91075	.8945	
		3A	.9285	.9375	.90500	.9233	.9375	.90160	.90500	.8830	.90940	.8912	3B
			.9280	.9380	.90485	.9228	.9380	.90175	.90515	.8825	.90925	.8907	
15/16-28 or 0.9375-28	UN	2A	.9292	.9363	.91310	.9246	.9363	.90910	.91430	.8990	.91950	.9070	2B
			.9287	.9368	.91295	.9241	.9368	.90925	.91445	.8985	.91935	.9065	
		3A	.9304	.9375	.91430	.9268	.9375	.91130	.91430	.8990	.91820	.9051	3B
			.9299	.9380	.91415	.9263	.9380	.91145	.91445	.8985	.91805	.9046	
15/16-32 or 0.9375-32	UN	2A	.9299	.9364	.91610	.9258	.9364	.91230	.91720	.9040	.92210	.9110	2B
			.9294	.9369	.91595	.9253	.9369	.91245	.91735	.9035	.92195	.9105	
		3A	.9310	.9375	.91720	.9279	.9375	.91440	.91720	.9040	.92090	.9094	3B
			.9305	.9380	.91705	.9274	.9380	.91455	.91735	.9035	.92075	.9089	
1-8 or 1.000-8	UNC	1A	.9809	.9980	.9168	.9608	.9980	.9067	.9188	.8650	.9320	.8900	1B
			.9802	.9987	.9166	.9601	.9987	.9069	.9190	.8643	.9318	.8893	
		2A	.9809	.9980	.9168	.9641	.9980	.9100	.9188	.8650	.9276	.8900	2B
			.9802	.9987	.9166	.9634	.9987	.9102	.9190	.8643	.9274	.8893	
		3A	.9829	1.0000	.9188	.9678	1.0000	.9137	.9188	.8650	.9254	.8797	3B
			.9822	1.0007	.9186	.9671	1.0007	.9139	.9190	.8643	.9252	.8790	
1-12 or 1.000-12	UNF	1A	.9853	.9982	.9441	.9714	.9982	.9353	.9459	.9100	.9573	.9280	1B
			.9847	.9988	.9439	.9708	.9988	.9355	.9961	.9094	.9571	.9274	
		2A	.9853	.9982	.9441	.9743	.9982	.9382	.9459	.9100	.9535	.9280	2B
			.9847	.9988	.9439	.9737	.9988	.9384	.9461	.9094	.9533	.9274	
		3A	.9871	1.0000	.9459	.9776	1.0000	.9415	.9459	.9100	.9516	.9198	3B
			.9865	1.0006	.9457	.9770	1.0006	.9417	.9461	.9094	.9514	.9192	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1-16 or 1.000-16	UN	2A	0.9880	0.9985	0.9579	0.9800	0.9985	0.9529	0.9594	0.9320	0.9659	0.9460	2B
			.9874	.9991	.9577	.9794	.9991	.9531	.9596	.9314	.9657	.9454	
		3A	.9895	1.0000	.9594	.9828	1.0000	.9557	.9594	.9320	.9643	.9408	3B
			.9889	1.0006	.9592	.9822	1.0006	.9559	.9596	.9314	.9641	.9402	
1-20 or 1.000-20	UNEF	2A	.9896	.9986	.96610	.9833	.9986	.96160	.96750	.9460	.97340	.9570	2B
			.9891	.9991	.96595	.9828	.9991	.96175	.96765	.9455	.97325	.9565	
		3A	.9910	1.0000	.96750	.9858	1.0000	.96410	.96750	.9460	.97190	.9537	3B
			.9905	1.0005	.96735	.9853	1.0005	.96425	.96765	.9455	.97175	.9532	
1-28 or 1.000-28	UN	2A	.9917	.9988	.97560	.9871	.9988	.97160	.97680	.9610	.98200	.9700	2B
			.9912	.9993	.97545	.9866	.9993	.97175	.97695	.9605	.98185	.9695	
		3A	.9929	1.0000	.97680	.9893	1.0000	.97380	.97680	.9610	.98070	.9676	3B
			.9924	1.0005	.97665	.9888	1.0005	.97395	.97695	.9605	.98055	.9671	
1-32 or 1.000-32	UN	2A	.9924	.9989	.97860	.9883	.9989	.97480	.97970	.9660	.98460	.9740	2B
			.9919	.9994	.97845	.9878	.9994	.97495	.97985	.9655	.98445	.9735	
		3A	.9935	1.0000	.97970	.9904	1.0000	.97690	.97970	.9660	.98340	.9719	3B
			.9930	1.0005	.97955	.9899	1.0005	.97705	.97985	.9655	.98325	.9714	
1 1/16-8 or 1.0625-8	UN	2A	1.0434	1.0605	.9793	1.0266	1.0605	.9725	.9813	.9270	.9902	.9520	2B
			1.0427	1.0612	.9791	1.0259	1.0612	.9727	.9815	.9263	.9900	.9513	
		3A	1.0454	1.0625	.9813	1.0303	1.0625	.9762	.9813	.9270	.9880	.9422	3B
			1.0447	1.0632	.9811	1.0296	1.0632	.9764	.9815	.9263	.9878	.9415	
1 1/16-12 or 1.0625-12	UN	2A	1.0479	1.0608	1.0067	1.0371	1.0608	1.0010	1.0084	.9720	1.0158	.9900	2B
			1.0473	1.0614	1.0065	1.0365	1.0614	1.0012	1.0086	.9714	1.0156	.9894	
		3A	1.0496	1.0625	1.0084	1.0403	1.0625	1.0042	1.0084	.9720	1.0139	.9823	3B
			1.0490	1.0631	1.0082	1.0397	1.0631	1.0044	1.0086	.9714	1.0137	.9817	
1 1/16-16 or 1.0625-16	UN	2A	1.0505	1.0610	1.0204	1.0425	1.0610	1.0154	1.0219	.9950	1.0284	1.0090	2B
			1.0499	1.0616	1.0202	1.0419	1.0616	1.0156	1.0221	.9944	1.0282	1.0084	
		3A	1.0520	1.0625	1.0219	1.0453	1.0625	1.0182	1.0219	.9950	1.0268	1.0033	3B
			1.0514	1.0631	1.0217	1.0447	1.0631	1.0184	1.0221	.9944	1.0266	1.0027	
1 1/16-18 or 1.0625-18	UNEF	2A	1.0514	1.0611	1.02500	1.0444	1.0611	1.02030	1.02640	1.0020	1.03260	1.0150	2B
			1.0509	1.0616	1.02485	1.0439	1.0616	1.02045	1.02655	1.0015	1.03245	1.0145	
		3A	1.0528	1.0625	1.02640	1.0469	1.0625	1.02280	1.02640	1.0020	1.03100	1.0105	3B
			1.0523	1.0630	1.02625	1.0464	1.0630	1.02295	1.02655	1.0015	1.03085	1.0100	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 1/16-20 or 1.0625-20	UN	2A	1.0521	1.0611	1.02860	1.0458	1.0611	1.02410	1.03000	1.0080	1.03590	1.0200	2B
			1.0516	1.0616	1.02845	1.0453	1.0616	1.02425	1.03015	1.0075	1.03575	1.0195	
		3A	1.0535	1.0625	1.03000	1.0483	1.0625	1.02660	1.03000	1.0080	1.03440	1.0162	3B
			1.0530	1.0630	1.02985	1.0478	1.0630	1.02675	1.03015	1.0075	1.03425	1.0157	
1 1/16-28 or 1.0625-28	UN	2A	1.0542	1.0613	1.03810	1.0496	1.0613	1.03410	1.03930	1.0240	1.04450	1.0320	2B
			1.0537	1.0618	1.03795	1.0491	1.0618	1.03425	1.03945	1.0235	1.04435	1.0315	
		3A	1.0554	1.0625	1.03930	1.0518	1.0625	1.03630	1.03930	1.0240	1.04320	1.0301	3B
			1.0549	1.0630	1.03915	1.0513	1.0630	1.03645	1.03945	1.0235	1.04305	1.0296	
1 1/8-7 or 1.125-7	UNC	1A	1.1040	1.1228	1.0300	1.0810	1.1228	1.0191	1.0322	.9700	1.0463	.9980	1B
			1.1033	1.1235	1.0298	1.0803	1.1235	1.0193	1.0324	.9693	1.0461	.9973	
		2A	1.1040	1.1228	1.0300	1.0847	1.1228	1.0228	1.0322	.9700	1.0416	.9980	2B
			1.1033	1.1235	1.0298	1.0840	1.1235	1 0230	1.0324	.9693	1.0414	.9973	
		3A	1.1062	1.1250	1.0322	1.0887	1.1250	1.0268	1.0322	.9700	1.0393	.9875	3B
			1.1055	1.1257	1.0320	1.0880	1.1257	1.0270	1.0324	.9693	1.0391	.9868	
1 1/8-8 or 1.125-8	UN	2A	1.1058	1.1229	1.0417	1.0889	1.1229	1.0348	1.0438	.9900	1.0528	1.0150	2B
			1.1051	1.1236	1.0415	1.0882	1.1236	1.0350	1.0440	.9893	1.0526	1.0143	
		3A	1.1079	1.1250	1.0438	1.0927	1.1250	1.0386	1.0438	.9900	1.0505	1.0047	3B
			1.1072	1.1257	1.0436	1.0920	1.1257	1.0388	1.0440	.9893	1.0503	1.0040	
1 1/8-12 or 1.125-12	UNF	1A	1.1103	1.1232	1.0691	1.0962	1.1232	1.0601	1.0709	1.0350	1.0826	1.0530	1B
			1.1097	1.1238	1.0689	1.0956	1.1238	1.0603	1.0711	1.0344	1.0824	1.0524	
		2A	1.1103	1.1232	1.0691	1.0992	1.1232	1.0631	1.0709	1.0350	1.0787	1.0530	2B
			1.1097	1.1238	1.0689	1.0986	1.1238	1.0633	1.0711	1.0344	1.0785	1.0524	
		3A	1.1121	1.1250	1.0709	1.1025	1.1250	1.0664	1.0709	1.0350	1.0768	1.0448	3B
			1.1115	1.1256	1.0707	1.1019	1.1256	1.0666	1.0711	1.0344	1.0766	1.0442	
1 1/8-16 or 1.125-16	UN	2A	1.1130	1.1235	1.0829	1.1050	1.1235	1.0779	1.0844	1.0570	1.0909	1.0710	2B
			1.1124	1.1241	1.0827	1.1044	1.1241	1.0781	1.0846	1.0564	1.0907	1.0704	
		3A	1.1145	1.1250	1.0844	1.1078	1.1250	1.0807	1.0844	1.0570	1.0893	1.0658	3B
			1.1139	1.1256	1.0842	1.1072	1.1256	1.0809	1.0846	1.0564	1.0891	1.0652	
1 1/8-18 or 1.125-18	UNEF	2A	1.1139	1.1236	1.08750	1.1069	1.1236	1.08280	1.08890	1.0650	1.09510	1.0780	2B
			1.1134	1.1241	1.08735	1.1064	1.1241	1.08295	1.08905	1.0645	1.09495	1.0775	
		3A	1.1153	1.1250	1.08890	1.1094	1.1250	1.08530	1.08890	1.0650	1.09350	1.0730	3B
			1.1148	1.1255	1.08875	1.1089	1.1255	1.08545	1.08905	1.0645	1.09335	1.0725	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1⅛-20 or 1.125-20	UN	2A	1.1146	1.1236	1.09110	1.1083	1.1236	1.08660	1.09250	1.0710	1.09840	1.0820	2B
			1.1141	1.1241	1.09095	1.1078	1.1241	1.08675	1.09265	1.0705	1.09825	1.0815	
		3A	1.1160	1.1250	1.09250	1.1108	1.1250	1.08910	1.09250	1.0710	1.09690	1.0787	3B
			1.1155	1.1255	1.09235	1.1103	1.1255	1.08925	1.09265	1.0705	1.09675	1.0782	
1⅛-28 or 1.125-28	UN	2A	1.1167	1.1238	1.10060	1.1121	1.1238	1.09660	1.10180	1.0860	1.10700	1.0950	2B
			1.1162	1.1243	1.10045	1.1116	1.1243	1.09675	1.10195	1.0855	1.10685	1.0945	
		3A	1.1179	1.1250	1.10180	1.1143	1.1250	1.09880	1.10180	1.0860	1.10570	1.0926	3B
			1.1174	1.1255	1.10165	1.1138	1.1255	1.09895	1.10195	1.0855	1.10555	1.0921	
1³⁄₁₆-8 or 1.1875-8	UN	2A	1.1683	1.1854	1.1042	1.1513	1.1854	1.0972	1.1063	1.0520	1.1154	1.0770	2B
			1.1676	1.1861	1.1040	1.1506	1.1861	1.0974	1.1065	1.0513	1.1152	1.0763	
		3A	1.1704	1.1875	1.1063	1.1552	1.1875	1.1011	1.1063	1.0520	1.1131	1.0672	3B
			1.1697	1.1882	1.1061	1.1545	1.1882	1.1013	1.1065	1.0513	1.1129	1.0665	
1³⁄₁₆-12 or 1.1875-12	UN	2A	1.1729	1.1858	1.1317	1.1620	1.1858	1.1259	1.1334	1.0970	1.1409	1.1150	2B
			1.1723	1.1864	1.1315	1.1614	1.1864	1.1261	1.1336	1.0964	1.1407	1.1144	
		3A	1.1746	1.1875	1.1334	1.1652	1.1875	1.1291	1.1334	1.0970	1.1390	1.1073	3B
			1.1740	1.1881	1.1332	1.1646	1.1881	1.1293	1.1336	1.0964	1.1388	1.1067	
1³⁄₁₆-16 or 1.1875-16	UN	2A	1.1755	1.1860	1.1454	1.1674	1.1860	1.1403	1.1469	1.1200	1.1535	1.1340	2B
			1.1749	1.1866	1.1452	1.1668	1.1866	1.1405	1.1471	1.1194	1.1533	1.1334	
		3A	1.1770	1.1875	1.1469	1.1702	1.1875	1.1431	1.1469	1.1200	1.1519	1.1283	3B
			1.1764	1.1881	1.1467	1.1696	1.1881	1.1433	1.1471	1.1194	1.1517	1.1277	
1³⁄₁₆-18 or 1.1875-18	UNEF	2A	1.1763	1.1860	1.14990	1.1691	1.1860	1.14500	1.15140	1.1270	1.15770	1.1400	2B
			1.1758	1.1865	1.14975	1.1686	1.1865	1.14515	1.15155	1.1265	1.15755	1.1395	
		3A	1.1778	1.1875	1.15140	1.1719	1.1875	1.14780	1.15140	1.1270	1.15610	1.1355	3B
			1.1773	1.1880	1.15125	1.1714	1.1880	1.14795	1.15155	1.1265	1.15595	1.1350	
1³⁄₁₆-20 or 1.1875-20	UN	2A	1.1771	1.1861	1.15360	1.1706	1.1861	1.14890	1.15500	1.1330	1.16110	1.1450	2B
			1.1766	1.1866	1.15345	1.1701	1.1866	1.14905	1.15515	1.1325	1.16095	1.1445	
		3A	1.1785	1.1875	1.15500	1.1732	1.1875	1.15150	1.15500	1.1330	1.15950	1.1412	3B
			1.1780	1.1880	1.15485	1.1727	1.1880	1.15165	1.15515	1.1325	1.15935	1.1407	
1³⁄₁₆-28 or 1.1875-28	UN	2A	1.1792	1.1863	1.16310	1.1745	1.1863	1.15900	1.16430	1.1490	1.16960	1.1570	2B
			1.1787	1.1868	1.16295	1.1740	1.1868	1.15915	1.16445	1.1485	1.16945	1.1565	
		3A	1.1804	1.1875	1.16430	1.1767	1.1875	1.16120	1.16430	1.1490	1.16830	1.1551	3B
			1.1799	1.1880	1.16415	1.1762	1.1880	1.16135	1.16445	1.1485	1.16815	1.1546	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1¼-7 or 1.250-7	UNC	1A	1.2290	1.2478	1.1550	1.2058	1.2478	1.1439	1.1572	1.0950	1.1716	1.1230	1B
			1.2283	1.2485	1.1548	1.2051	1.2485	1.1441	1.1574	1.0943	1.1714	1.1223	
		2A	1.2290	1.2478	1.1550	1.2095	1.2478	1.1476	1.1572	1.0950	1.1668	1.1230	2B
			1.2283	1.2485	1.1548	1.2088	1.2485	1.1478	1.1574	1.0943	1.1666	1.1223	
		3A	1.2312	1.2500	1.1572	1.2136	1.2500	1.1517	1.1572	1.0950	1.1644	1.1125	3B
			1.2305	1.2507	1.1570	1.2129	1.2507	1.1519	1.1574	1.0943	1.1642	1.1118	
1¼-8 or 1.250-8	UN	2A	1.2308	1.2479	1.1667	1.2138	1.2479	1.1597	1.1688	1.1150	1.1780	1.1400	2B
			1.2301	1.2486	1.1665	1.2131	1.2486	1.1599	1.1690	1.1143	1.1778	1.1393	
		3A	1.2329	1.2500	1.1688	1.2176	1.2500	1.1635	1.1688	1.1150	1.1757	1.1297	3B
			1.2322	1.2507	1.1686	1.2169	1.2507	1.1637	1.1690	1.1143	1.1755	1.1290	
1¼-12 or 1.250-12	UNF	1A	1.2353	1.2482	1.1941	1.2210	1.2482	1.1849	1.1959	1.1600	1.2079	1.1780	1B
			1.2347	1.2488	1.1939	1.2204	1.2488	1.1851	1.1961	1.1594	1.2077	1.1774	
		2A	1.2353	1.2482	1.1941	1.2240	1.2482	1.1879	1.1959	1.1600	1.2039	1.1780	2B
			1.2347	1.2488	1.1939	1.2234	1.2488	1.1881	1.1961	1.1594	1.2037	1.1774	
		3A	1.2371	1.2500	1.1959	1.2274	1.2500	1.1913	1.1959	1.1600	1.2019	1.1698	3B
			1.2365	1.2506	1.1957	1.2268	1.2506	1.1915	1.1961	1.1594	1.2017	1.1692	
1¼-16 or 1.250-16	UN	2A	1.2380	1.2485	1.2079	1.2299	1.2485	1.2028	1.2094	1.1820	1.2160	1.1960	2B
			1.2374	1.2491	1.2077	1.2293	1.2491	1.2030	1.2096	1.1814	1.2158	1.1954	
		3A	1.2395	1.2500	1.2094	1.2327	1.2500	1.2056	1.2094	1.1820	1.2144	1.1908	3B
			1.2389	1.2506	1.2092	1.2321	1.2506	1.2058	1.2096	1.1814	1.2142	1.1902	
1¼-18 or 1.250-18	UNEF	2A	1.2388	1.2485	1.21240	1.2316	1.2485	1.20750	1.21390	1.1900	1.22020	1.2030	2B
			1.2383	1.2490	1.21225	1.2311	1.2490	1.20765	1.21405	1.1895	1.22005	1.2025	
		3A	1.2403	1.2500	1.21390	1.2344	1.2500	1.21030	1.21390	1.1900	1.21860	1.1980	3B
			1.2398	1.2505	1.21375	1.2339	1.2505	1.21045	1.21405	1.1895	1.21845	1.1975	
1¼-20 or 1.250-20	UN	2A	1.2396	1.2486	1.21610	1.2331	1.2486	1.21140	1.21750	1.1960	1.22360	1.2070	2B
			1.2391	1.2491	1.21595	1.2326	1.2491	1.21155	1.21765	1.1955	1.22345	1.2065	
		3A	1.2410	1.2500	1.21750	1.2357	1.2500	1.21400	1.21750	1.1960	1.22200	1.2037	3B
			1.2405	1.2505	1.21735	1.2352	1.2505	1.21415	1.21765	1.1955	1.22185	1.2032	
1¼-28 or 1.250-28	UN	2A	1.2417	1.2488	1.22560	1.2370	1.2488	1.22150	1.22680	1.2110	1.23210	1.2200	2B
			1.2412	1.2493	1.22545	1.2365	1.2493	1.22165	1.22695	1.2105	1.23195	1.2195	
		3A	1.2429	1.2500	1.22680	1.2392	1.2500	1.22370	1.22680	1.2110	1.23080	1.2176	3B
			1.2424	1.2505	1.22665	1.2387	1.2505	1.22385	1.22695	1.2105	1.23065	1.2171	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 5/16-8 or 1.3125-8	UN	2A	1.2933	1.3104	1.2292	1.2762	1.3104	1.2221	1.2313	1.1770	1.2405	1.2020	2B
			1.2926	1.3111	1.2290	1.2755	1.3111	1.2223	1.2315	1.1763	1.2403	1.2013	
		3A	1.2954	1.3125	1.2313	1.2801	1.3125	1.2260	1.2313	1.1770	1.2382	1.1922	3B
			1.2947	1.3132	1.2311	1.2794	1.3132	1.2262	1.2315	1.1763	1.2380	1.1915	
1 5/16-12 or 1.3125-12	UN	2A	1.2979	1.3108	1.2567	1.2870	1.3108	1.2509	1.2584	1.2220	1.2659	1.2400	2B
			1.2973	1.3114	1.2565	1.2864	1.3114	1.2511	1.2586	1.2214	1.2657	1.2394	
		3A	1.2996	1.3125	1.2584	1.2902	1.3125	1.2541	1.2584	1.2220	1.2640	1.2323	3B
			1.2990	1.3131	1.2582	1.2896	1.3131	1.2543	1.2586	1.2214	1.2638	1.2317	
1 5/16-16 or 1.3125-16	UN	2A	1.3005	1.3110	1.2704	1.2924	1.3110	1.2653	1.2719	1.2450	1.2785	1.2590	2B
			1.2999	1.3116	1.2702	1.2918	1.3116	1.2655	1.2721	1.2444	1.2783	1.2584	
		3A	1.3020	1.3125	1.2719	1.2952	1.3125	1.2681	1.2719	1.2450	1.2769	1.2533	3B
			1.3014	1.3131	1.2717	1.2946	1.3131	1.2683	1.2721	1.2444	1.2767	1.2527	
1 5/16-18 or 1.3125-18	UNEF	2A	1.3013	1.3110	1.27490	1.2941	1.3110	1.27000	1.27640	1.2520	1.28270	1.2650	2B
			1.3008	1.3115	1.27475	1.2936	1.3115	1.27015	1.27655	1.2515	1.28255	1.2645	
		3A	1.3028	1.3125	1.27640	1.2969	1.3125	1.27280	1.27640	1.2520	1.28110	1.2605	3B
			1.3023	1.3130	1.27625	1.2964	1.3130	1.27295	1.27655	1.2515	1.28095	1.2600	
1 5/16-20 or 1.3125-20	UN	2A	1.3021	1.3111	1.27860	1.2956	1.3111	1.27390	1.28000	1.2580	1.28610	1.2700	2B
			1.3016	1.3116	1.27845	1.2951	1.3116	1.27405	1.28015	1.2575	1.28595	1.2695	
		3A	1.3035	1.3125	1.28000	1.2982	1.3125	1.27650	1.28000	1.2580	1.28450	1.2662	3B
			1.3030	1.3130	1.27985	1.2977	1.3130	1.27665	1.28015	1.2575	1.28435	1.2657	
1 5/16-28 or 1.3125-28	UN	2A	1.3042	1.3113	1.28810	1.2995	1.3113	1.28400	1.28930	1.2740	1.29460	1.2820	2B
			1.3037	1.3118	1.28795	1.2990	1.3118	1.28415	1.28945	1.2735	1.29445	1.2815	
		3A	1.3054	1.3125	1.28930	1.3017	1.3125	1.28620	1.28930	1.2740	1.29330	1.2801	3B
			1.3049	1.3130	1.28915	1.3012	1.3130	1.28635	1.28945	1.2735	1.29315	1.2796	
1 3/8-6 or 1.375-6	UNC	1A	1.3516	1.3726	1.2643	1.3245	1.3726	1.2523	1.2667	1.1950	1.2822	1.2250	1B
			1.3508	1.3734	1.2641	1.3237	1.3734	1.2525	1.2669	1.1942	1.2820	1.2242	
		2A	1.3516	1.3726	1.2643	1.3285	1.3726	1.2563	1.2667	1.1950	1.2771	1.2250	2B
			1.3508	1.3734	1.2641	1.3277	1.3734	1.2565	1.2669	1.1942	1.2769	1.2242	
		3A	1.3540	1.3750	1.2667	1.3329	1.3750	1.2607	1.2267	1.1950	1.2745	1.2146	3B
			1.3532	1.3758	1.2665	1.3321	1.3758	1.2609	1.2269	1.1942	1.2743	1.2138	
1 3/8-8 or 1.375-8	UN	2A	1.3557	1.3728	1.2916	1.3385	1.3728	1.2844	1.2938	1.2400	1.3031	1.2650	2B
			1.3550	1.3735	1.2914	1.3378	1.3735	1.2846	1.2940	1.2393	1.3029	1.2643	
		3A	1.3579	1.3750	1.2938	1.3425	1.3750	1.2884	1.2938	1.2400	1.3008	1.2547	3B
			1.3572	1.3757	1.2936	1.3418	1.3757	1.2886	1.2940	1.2393	1.3006	1.2540	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1⅜-12 or 1.375-12	UNF	1A	1.3602	1.3731	1.3190	1.3457	1.3731	1.3096	1.3209	1.2850	1.3332	1.3030	1B
			1.3596	1.3737	1.3188	1.3451	1.3737	1.3098	1.3211	1.2844	1.3330	1.3024	
		2A	1.3602	1.3731	1.3190	1.3488	1.3731	1.3127	1.3209	1.2850	1.3291	1.3030	2B
			1.3596	1.3737	1.3188	1.3482	1.3737	1.3129	1.3211	1.2844	1.3289	1.3024	
		3A	1.3621	1.3750	1.3209	1.3523	1.3750	1.3162	1.3209	1.2850	1.3270	1.2948	3B
			1.3615	1.3756	1.3207	1.3517	1.3756	1.3164	1.3211	1.2844	1.3268	1.2942	
1⅜-16 or 1.375-16	UN	2A	1.3630	1.3735	1.3329	1.3549	1.3735	1.3278	1.3344	1.3070	1.3410	1.3210	2B
			1.3624	1.3741	1.3327	1.3543	1.3741	1.3280	1.3346	1.3064	1.3408	1.3204	
		3A	1.3645	1.3750	1.3344	1.3577	1.3750	1.3306	1.3344	1.3070	1.3394	1.3158	3B
			1.3639	1.3756	1.3342	1.3571	1.3756	1.3308	1.3346	1.3064	1.3392	1.3152	
1⅜-18 or 1.375-18	UNEF	2A	1.3638	1.3735	1.33740	1.3566	1.3735	1.33250	1.33890	1.3150	1.34520	1.3280	2B
			1.3633	1.3740	1.33725	1.3561	1.3740	1.33265	1.33905	1.3145	1.34505	1.3275	
		3A	1.3653	1.3750	1.33890	1.3594	1.3750	1.33530	1.33890	1.3150	1.34360	1.3230	3B
			1.3648	1.3755	1.33875	1.3589	1.3755	1.33545	1.33905	1.3145	1.34345	1.3225	
1⅜-20 or 1.375-20	UN	2A	1.3646	1.3736	1.34110	1.3581	1.3736	1.33640	1.34250	1.3210	1.34860	1.3320	2B
			1.3641	1.3741	1.34095	1.3576	1.3741	1.33655	1.34265	1.3205	1.34845	1.3315	
		3A	1.3660	1.3750	1.34250	1.3607	1.3750	1.33900	1.34250	1.3210	1.34700	1.3287	3B
			1.3655	1.3755	1.34235	1.3602	1.3755	1.33915	1.34265	1.3205	1.34685	1.3282	
1⅜-28 or 1.375-28	UN	2A	1.3667	1.3738	1.35060	1.3620	1.3738	1.34650	1.35180	1.3360	1.35710	1.3450	2B
			1.3662	1.3743	1.35045	1.3615	1.3743	1.34665	1.35195	1.3355	1.35695	1.3445	
		3A	1.3679	1.3750	1.35180	1.3642	1.3750	1.34870	1.35180	1.3360	1.35580	1.3426	3B
			1.3674	1.3755	1.35165	1.3637	1.3755	1.34885	1.35195	1.3355	1.35565	1.3421	
1⁷⁄₁₆-6 or 1.4375-6	UN	2A	1.4141	1.4351	1.3268	1.3910	1.4351	1.3188	1.3292	1.2570	1.3396	1.2880	2B
			1.4133	1.4359	1.3266	1.3902	1.4359	1.3190	1.3294	1.2562	1.3394	1.2872	
		3A	1.4165	1.4375	1.3292	1.3954	1.4375	1.3232	1.3292	1.2570	1.3370	1.2771	3B
			1.4157	1.4383	1.3290	1.3946	1.4383	1.3234	1.3294	1.2562	1.3368	1.2763	
1⁷⁄₁₆-8 or 1.4375-8	UN	2A	1.4182	1.4353	1.3541	1.4010	1.4353	1.3469	1.3563	1.3020	1.3657	1.3270	2B
			1.4175	1.4360	1.3539	1.4003	1.4360	1.3471	1.3565	1.3013	1.3655	1.3263	
		3A	1.4204	1.4375	1.3563	1.4050	1.4375	1.3509	1.3563	1.3020	1.3634	1.3172	3B
			1.4197	1.4382	1.3561	1.4043	1.4382	1.3511	1.3565	1.3013	1.3632	1.3165	
1⁷⁄₁₆-12 or 1.4375-12	UN	2A	1.4228	1.4357	1.3816	1.4118	1.4357	1.3757	1.3834	1.3470	1.3910	1.3650	2B
			1.4222	1.4363	1.3814	1.4112	1.4363	1.3759	1.3836	1.3464	1.3908	1.3644	
		3A	1.4246	1.4375	1.3834	1.4151	1.4375	1.3790	1.3834	1.3470	1.3891	1.3573	3B
			1.4240	1.4381	1.3832	1.4145	1.4381	1.3792	1.3836	1.3464	1.3889	1.3567	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 7/16-16 or 1.4375-16	UN	2A	1.4254	1.4359	1.3953	1.4172	1.4359	1.3901	1.3969	1.3700	1.4037	1.3840	2B
			1.4248	1.4365	1.3951	1.4166	1.4365	1.3903	1.3971	1.3694	1.4035	1.3834	
		3A	1.4270	1.4375	1.3969	1.4201	1.4375	1.3930	1.3969	1.3700	1.4020	1.3783	3B
			1.4264	1.4381	1.3967	1.4195	1.4381	1.3932	1.3971	1.3694	1.4018	1.3777	
1 7/16-18 or 1.4375-18	UNEF	2A	1.4263	1.4360	1.39990	1.4190	1.4360	1.39490	1.40140	1.3770	1.40790	1.3900	2B
			1.4258	1.4365	1.39975	1.4185	1.4365	1.39505	1.40155	1.3765	1.40775	1.3895	
		3A	1.4278	1.4375	1.40140	1.4218	1.4375	1.39770	1.40140	1.3770	1.40620	1.3855	3B
			1.4273	1.4380	1.40125	1.4213	1.4380	1.39785	1.40155	1.3765	1.40605	1.3850	
1 7/16-20 or 1.4375-20	UN	2A	1.4271	1.4361	1.40360	1.4205	1.4361	1.39880	1.40500	1.3830	1.41120	1.3950	2B
			1.4266	1.4366	1.40345	1.4200	1.4366	1.39895	1.40515	1.3825	1.41105	1.3945	
		3A	1.4285	1.4375	1.40500	1.4231	1.4375	1.40140	1.40500	1.3830	1.40960	1.3912	3B
			1.4280	1.4380	1.40485	1.4226	1.4380	1.40155	1.40515	1.3825	1.40945	1.3907	
1 7/16-28 or 1.4375-28	UN	2A	1.4291	1.4362	1.41300	1.4243	1.4362	1.40880	1.41430	1.3990	1.41980	1.4070	2B
			1.4286	1.4367	1.41285	1.4238	1.4367	1.40895	1.41445	1.3985	1.41965	1.4065	
		3A	1.4304	1.4375	1.41430	1.4267	1.4375	1.41120	1.41430	1.3990	1.41840	1.4051	3B
			1.4299	1.4380	1.41415	1.4262	1.4380	1.41135	1.41445	1.3985	1.41825	1.4046	
1 1/2-6 or 1.500-6	UNC	1A	1.4766	1.4976	1.3893	1.4494	1.4976	1.3772	1.3917	1.3200	1.4075	1.3500	1B
			1.4758	1.4984	1.3891	1.4486	1.4984	1.3774	1.3919	1.3192	1.4073	1.3492	
		2A	1.4766	1.4976	1.3893	1.4534	1.4976	1.3812	1.3917	1.3200	1.4022	1.3500	2B
			1.4758	1.4984	1.3891	1.4526	1.4984	1.3814	1.3919	1.3192	1.4020	1.3492	
		3A	1.4790	1.5000	1.3917	1.4578	1.5000	1.3856	1.3917	1.3200	1.3996	1.3396	3B
			1.4782	1.5008	1.3915	1.4570	1.5008	1.3858	1.3919	1.3192	1.3994	1.3388	
1 1/2-8 or 1.500-8	UN	2A	1.4807	1.4978	1.4166	1.4634	1.4978	1.4093	1.4188	1.3650	1.4283	1.3900	2B
			1.4800	1.4985	1.4164	1.4627	1.4985	1.4095	1.4190	1.3643	1.4281	1.3893	
		3A	1.4829	1.5000	1.4188	1.4674	1.5000	1.4133	1.4188	1.3650	1.4259	1.3797	3B
			1.4822	1.5007	1.4186	1.4667	1.5007	1.4135	1.4190	1.3643	1.4257	1.3790	
1 1/2-12 or 1.500-12	UNF	1A	1.4852	1.4981	1.4440	1.4705	1.4981	1.4344	1.4459	1.4100	1.4584	1.4280	1B
			1.4846	1.4987	1.4438	1.4699	1.4987	1.4346	1.4461	1.4094	1.4582	1.4274	
		2A	1.4852	1.4981	1.4440	1.4737	1.4981	1.4376	1.4459	1.4100	1.4542	1.4280	2B
			1.4846	1.4987	1.4438	1.4731	1.4987	1.4378	1.4461	1.4094	1.4540	1.4274	
		3A	1.4871	1.5000	1.4459	1.4772	1.5000	1.4411	1.4459	1.4100	1.4522	1.4198	3B
			1.4865	1.5006	1.4457	1.4766	1.5006	1.4413	1.4461	1.4094	1.4520	1.4192	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1½-16 or 1.500-16	UN	2A	1.4879	1.4984	1.4578	1.4797	1.4984	1.4526	1.4594	1.4320	1.4662	1.4460	2B
			1.4873	1.4990	1.4576	1.4791	1.4990	1.4528	1.4596	1.4314	1.4660	1.4454	
		3A	1.4895	1.5000	1.4594	1.4826	1.5000	1.4555	1.4594	1.4320	1.4645	1.4408	3B
			1.4889	1.5006	1.4592	1.4820	1.5006	1.4557	1.4596	1.4314	1.4643	1.4402	
1½-18 or 1.500-18	UNEF	2A	1.4888	1.4985	1.46240	1.4815	1.4985	1.45740	1.46390	1.4400	1.47040	1.4520	2B
			1.4883	1.4990	1.46225	1.4810	1.4990	1.45755	1.46405	1.4395	1.47025	1.4515	
		3A	1.4903	1.5000	1.46390	1.4843	1.5000	1.46020	1.46390	1.4400	1.46870	1.4480	3B
			1.4898	1.5005	1.46375	1.4838	1.5005	1.46035	1.46405	1.4395	1.46855	1.4475	
1½-20 or 1.500-20	UN	2A	1.4896	1.4986	1.46610	1.4830	1.4986	1.46130	1.46750	1.4460	1.47370	1.4570	2B
			1.4891	1.4991	1.46595	1.4825	1.4991	1.46145	1.46765	1.4455	1.47355	1.4565	
		3A	1.4910	1.5000	1.46750	1.4856	1.5000	1.46390	1.46750	1.4460	1.47210	1.4537	3B
			1.4905	1.5005	1.46735	1.4851	1.5005	1.46405	1.46765	1.4455	1.47195	1.4532	
1½-28 or 1.500-28	UN	2A	1.4916	1.4987	1.47550	1.4868	1.4987	1.47130	1.47680	1.4610	1.48230	1.4700	2B
			1.4911	1.4992	1.47535	1.4863	1.4992	1.47145	1.47695	1.4605	1.48215	1.4695	
		3A	1.4929	1.5000	1.47680	1.4892	1.5000	1.47370	1.47680	1.4610	1.48090	1.4676	3B
			1.4924	1.5005	1.47665	1.4887	1.5005	1.47385	1.47695	1.4605	1.48075	1.4671	
1⁹⁄₁₆-6 or 1.5625-6	UN	2A	1.5391	1.5601	1.45180	1.5158	1.5601	1.44360	1.45420	1.3820	1.46480	1.4130	2B
			1.5383	1.5609	1.45155	1.5150	1.5609	1.44385	1.45445	1.3812	1.46455	1.4122	
		3A	1.5415	1.5625	1.45420	1.5203	1.5625	1.44810	1.45420	1.3820	1.46220	1.4021	3B
			1.5407	1.5633	1.45395	1.5195	1.5633	1.44835	1.45445	1.3812	1.46195	1.4013	
1⁹⁄₁₆-8 or 1.5625-8	UN	2A	1.5432	1.5603	1.47910	1.5258	1.5603	1.47170	1.48130	1.4270	1.49090	1.4520	2B
			1.5425	1.5610	1.47885	1.5251	1.5610	1.47195	1.48155	1.4263	1.49065	1.4513	
		3A	1.5454	1.5625	1.48130	1.5299	1.5625	1.47580	1.48130	1.4270	1.48850	1.4422	3B
			1.5447	1.5632	1.48105	1.5292	1.5632	1.47605	1.48155	1.4263	1.48825	1.4415	
1⁹⁄₁₆-12 or 1.5625-12	UN	2A	1.5478	1.5607	1.50660	1.5368	1.5607	1.50070	1.50840	1.4720	1.51600	1.4900	2B
			1.5472	1.5613	1.50635	1.5362	1.5613	1.50095	1.50865	1.4714	1.51575	1.4894	
		3A	1.5496	1.5625	1.50840	1.5401	1.5625	1.50400	1.50840	1.4720	1.51410	1.4823	3B
			1.5490	1.5631	1.50815	1.5395	1.5631	1.50425	1.50865	1.4714	1.51385	1.4817	
1⁹⁄₁₆-16 or 1.5625-16	UN	2A	1.5504	1.5609	1.52030	1.5422	1.5609	1.51510	1.52190	1.4950	1.52870	1.5090	2B
			1.5498	1.5615	1.52005	1.5416	1.5615	1.51535	1.52215	1.4944	1.52845	1.5084	
		3A	1.5520	1.5625	1.52190	1.5451	1.5625	1.51800	1.52190	1.4950	1.52700	1.5033	3B
			1.5514	1.5631	1.52165	1.5445	1.5631	1.51825	1.52215	1.4944	1.52675	1.5027	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 9/16-18 or 1.5625-18	UNEF	2A	1.5513	1.5610	1.5249	1.5440	1.5610	1.5199	1.5264	1.5020	1.5329	1.5150	2B
			1.5508	1.5615	1.5247	1.5435	1.5615	1.5201	1.5266	1.5015	1.5327	1.5145	
		3A	1.5528	1.5625	1.5264	1.5468	1.5625	1.5227	1.5264	1.5020	1.5312	1.5105	3B
			1.5523	1.5630	1.5262	1.5463	1.5630	1.5229	1.5266	1.5015	1.5310	1.5100	
1 9/16-20 or 1.5625-20	UN	2A	1.5521	1.5611	1.5286	1.5455	1.5611	1.5238	1.5300	1.5080	1.5362	1.5200	2B
			1.5516	1.5616	1.5284	1.5450	1.5616	1.5240	1.5302	1.5075	1.5360	1.5195	
		3A	1.5535	1.5625	1.5300	1.5481	1.5625	1.5264	1.5300	1.5080	1.5346	1.5162	3B
			1.5530	1.5630	1.5298	1.5476	1.5630	1.5266	1.5302	1.5075	1.5344	1.5157	
1 5/8-6 or 1.625-6	UN	2A	1.6015	1.6225	1.51420	1.5782	1.6225	1.50600	1.51670	1.4450	1.52740	1.4750	2B
			1.6007	1.6233	1.51395	1.5774	1.6233	1.50625	1.51695	1.4442	1.52715	1.4742	
		3A	1.6040	1.6250	1.51670	1.5827	1.6250	1.51050	1.51670	1.4450	1.52470	1.4646	3B
			1.6032	1.6258	1.51645	1.5819	1.6258	1.51075	1.51695	1.4442	1.52445	1.4638	
1 5/8-8 or 1.625-8	UN	2A	1.6057	1.6228	1.54160	1.5883	1.6228	1.53420	1.54380	1.4900	1.55350	1.5150	2B
			1.6050	1.6235	1.54135	1.5876	1.6235	1.53445	1.54405	1.4893	1.55325	1.5143	
		3A	1.6079	1.6250	1.54380	1.5923	1.6250	1.53820	1.54380	1.4900	1.55100	1.5047	3B
			1.6072	1.6257	1.54355	1.5916	1.6257	1.53845	1.54405	1.4893	1.55075	1.5040	
1 5/8-12 or 1.625-12	UN	2A	1.6103	1.6232	1.56910	1.5993	1.6232	1.56320	1.57090	1.5350	1.57850	1.5530	2B
			1.6097	1.6238	1.56885	1.5987	1.6238	1.56345	1.57115	1.5344	1.57825	1.5524	
		3A	1.6121	1.6250	1.57090	1.6026	1.6250	1.56650	1.57090	1.5350	1.57660	1.5448	3B
			1.6115	1.6256	1.57065	1.6020	1.6256	1.56675	1.57115	1.5344	1.57635	1.5442	
1 5/8-16 or 1.625-16	UN	2A	1.6129	1.6234	1.58280	1.6047	1.6234	1.57760	1.58440	1.5570	1.59120	1.5710	2B
			1.6123	1.6240	1.58255	1.6041	1.6240	1.57785	1.58465	1.5564	1.59095	1.5704	
		3A	1.6145	1.6250	1.58440	1.6076	1.6250	1.58050	1.58440	1.5570	1.58950	1.5658	3B
			1.6139	1.6256	1.58415	1.6070	1.6256	1.58075	1.58465	1.5564	1.58925	1.5652	
1 5/8-18 or 1.625-18	UNEF	2A	1.6138	1.6235	1.5874	1.6065	1.6235	1.5824	1.5889	1.5650	1.5954	1.5780	2B
			1.6133	1.6240	1.5872	1.6060	1.6240	1.5826	1.5891	1.5645	1.5952	1.5775	
		3A	1.6153	1.6250	1.5889	1.6093	1.6250	1.5852	1.5889	1.5650	1.5937	1.5730	3B
			1.6148	1.6255	1.5887	1.6088	1.6255	1.5854	1.5891	1.5645	1.5935	1.5725	
1 5/8-20 or 1.625-20	UN	2A	1.6146	1.6236	1.5911	1.6080	1.6236	1.5863	1.5925	1.5710	1.5987	1.5820	2B
			1.6141	1.6241	1.5909	1.6075	1.6241	1.5865	1.5927	1.5705	1.5985	1.5815	
		3A	1.6160	1.6250	1.5925	1.6106	1.6250	1.5889	1.5925	1.5710	1.5971	1.5787	3B
			1.6155	1.6255	1.5923	1.6101	1.6255	1.5891	1.5927	1.5705	1.5969	1.5782	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 11/16-6 or 1.6875-6	UN	2A	1.6640	1.6850	1.57670	1.6406	1.6850	1.56840	1.57920	1.5070	1.59000	1.5380	2B
			1.6632	1.6858	1.57645	1.6398	1.6858	1.56865	1.57945	1.5062	1.58975	1.5372	
		3A	1.6665	1.6875	1.57920	1.6452	1.6875	1.57300	1.57920	1.5070	1.58730	1.5271	3B
			1.6657	1.6883	1.57895	1.6444	1.6883	1.57325	1.57945	1.5062	1.58705	1.5263	
1 11/16-8 or 1.6875-8	UN	2A	1.6682	1.6853	1.60410	1.6507	1.6853	1.59660	1.60630	1.5520	1.61600	1.5770	2B
			1.6675	1.6860	1.60385	1.6500	1.6860	1.59685	1.60655	1.5513	1.61575	1.5763	
		3A	1.6704	1.6875	1.60630	1.6548	1.6875	1.60070	1.60630	1.5520	1.61360	1.5672	3B
			1.6697	1.6882	1.60605	1.6541	1.6882	1.60095	1.60655	1.5513	1.61335	1.5665	
1 11/16-12 or 1.6875-12	UN	2A	1.6728	1.6857	1.63160	1.6617	1.6857	1.62560	1.63340	1.5970	1.64120	1.6150	2B
			1.6722	1.6863	1.63135	1.6611	1.6863	1.62585	1.63365	1.5964	1.64095	1.6144	
		3A	1.6746	1.6875	1.63340	1.6650	1.6875	1.62890	1.63340	1.5970	1.63920	1.6073	3B
			1.6740	1.6881	1.63315	1.6644	1.6881	1.62915	1.63365	1.5964	1.63895	1.6067	
1 11/16-16 or 1.6875-16	UN	2A	1.6754	1.6859	1.64530	1.6671	1.6859	1.64000	1.64690	1.6200	1.65380	1.6340	2B
			1.6748	1.6865	1.64505	1.6665	1.6865	1.64025	1.64715	1.6194	1.65355	1.6334	
		3A	1.6770	1.6875	1.64690	1.6700	1.6875	1.64290	1.64690	1.6200	1.65210	1.6283	3B
			1.6764	1.6881	1.64665	1.6694	1.6881	1.64315	1.64715	1.6194	1.65185	1.6277	
1 11/16-18 or 1.6875-18	UNEF	2A	1.6763	1.6860	1.6499	1.6689	1.6860	1.6448	1.6514	1.6270	1.6580	1.6400	2B
			1.6758	1.6865	1.6497	1.6684	1.6865	1.6450	1.6516	1.6265	1.6578	1.6395	
		3A	1.6778	1.6875	1.6514	1.6717	1.6875	1.6476	1.6514	1.6270	1.6563	1.6355	3B
			1.6773	1.6880	1.6512	1.6712	1.6880	1.6478	1.6516	1.6265	1.6561	1.6350	
1 11/16-20 or 1.6875-20	UN	2A	1.6770	1.6860	1.6535	1.6704	1.6860	1.6487	1.6550	1.6330	1.6613	1.6450	2B
			1.6765	1.6865	1.6533	1.6699	1.6865	1.6489	1.6552	1.6325	1.6611	1.6445	
		3A	1.6785	1.6875	1.6550	1.6731	1.6875	1.6514	1.6550	1.6330	1.6597	1.6412	3B
			1.6780	1.6880	1.6548	1.6726	1.6880	1.6516	1.6552	1.6325	1.6595	1.6407	
1 3/4-5 or 1.750-5	UNC	1A	1.7234	1.7473	1.61740	1.6906	1.7473	1.60400	1.62010	1.5340	1.63750	1.5680	1B
			1.7226	1.7481	1.61715	1.6898	1.7481	1.60425	1.62035	1.5332	1.63725	1.5672	
		2A	1.7234	1.7473	1.61740	1.6951	1.7473	1.60850	1.62010	1.5340	1.63170	1.5680	2B
			1.7226	1.7481	1.61715	1.6943	1.7481	1.60875	1.62035	1.5332	1.63145	1.5672	
		3A	1.7261	1.7500	1.62010	1.7000	1.7500	1.61340	1.62010	1.5340	1.62880	1.5575	3B
			1.7253	1.7508	1.61985	1.6992	1.7508	1.61365	1.62035	1.5332	1.62855	1.5507	
1 3/4-6 or 1.750-6	UN	2A	1.7265	1.7475	1.63920	1.7031	1.7475	1.63090	1.64170	1.5700	1.65250	1.6000	2B
			1.7257	1.7483	1.63895	1.7023	1.7483	1.63115	1.64195	1.5692	1.65225	1.5992	
		3A	1.7290	1.7500	1.64170	1.7076	1.7500	1.63540	1.64170	1.5700	1.64980	1.5896	3B
			1.7282	1.7508	1.64145	1.7068	1.7508	1.63565	1.64195	1.5692	1.64955	1.5888	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1¾-8 or 1.750-8	UN	2A	1.7306	1.7477	1.66650	1.7131	1.7477	1.65900	1.66880	1.6150	1.67860	1.6400	2B
			1.7299	1.7484	1.66625	1.7124	1.7484	1.65925	1.66905	1.6143	1.67835	1.6393	
		3A	1.7329	1.7500	1.66880	1.7172	1.7500	1.66310	1.66880	1.6150	1.67620	1.6297	3B
			1.7322	1.7507	1.66855	1.7165	1.7507	1.66335	1.66905	1.6143	1.67595	1.6290	
1¾-12 or 1.750-12	UN	2A	1.7353	1.7482	1.69410	1.7242	1.7482	1.68810	1.69590	1.6600	1.70370	1.6780	2B
			1.7347	1.7488	1.69385	1.7236	1.7488	1.68835	1.69615	1.6594	1.70345	1.6774	
		3A	1.7371	1.7500	1.69590	1.7275	1.7500	1.69140	1.69590	1.6600	1.70170	1.6698	3B
			1.7365	1.7506	1.69565	1.7269	1.7506	1.69165	1.69615	1.6594	1.70145	1.6692	
1¾-16 or 1.750-16	UN	2A	1.7379	1.7484	1.70780	1.7296	1.7484	1.70250	1.70940	1.6820	1.71630	1.6960	2B
			1.7373	1.7490	1.70755	1.7290	1.7490	1.70275	1.70965	1.6814	1.71605	1.6954	
		3A	1.7395	1.7500	1.70940	1.7325	1.7500	1.70540	1.70940	1.6820	1.71460	1.6908	3B
			1.7389	1.7506	1.70915	1.7319	1.7506	1.70565	1.70965	1.6814	1.71435	1.6902	
1¾-20 or 1.750-20	UN	2A	1.7395	1.7485	1.7160	1.7329	1.7485	1.7112	1.7175	1.6960	1.7238	1.7070	2B
			1.7390	1.7490	1.7158	1.7324	1.7490	1.7114	1.7177	1.6955	1.7236	1.7065	
		3A	1.7410	1.7500	1.7175	1.7356	1.7500	1.7139	1.7175	1.6960	1.7222	1.7037	3B
			1.7405	1.7505	1.7173	1.7351	1.7505	1.7141	1.7177	1.6955	1.7220	1.7032	
1 13/16-6 or 1.8125-6	UN	2A	1.7890	1.8100	1.70170	1.7655	1.8100	1.69330	1.70420	1.6320	1.71510	1.6630	2B
			1.7882	1.8108	1.70145	1.7647	1.8108	1.69355	1.70445	1.6312	1.71485	1.6622	
		3A	1.7915	1.8125	1.70420	1.7701	1.8125	1.69790	1.70420	1.6320	1.71240	1.6521	3B
			1.7907	1.8133	1.70395	1.7693	1.8133	1.69815	1.70445	1.6312	1.71215	1.6513	
1 13/16-8 or 1.8125-8	UN	2A	1.7931	1.8102	1.72900	1.7755	1.8102	1.72140	1.73130	1.6770	1.74120	1.7020	2B
			1.7924	1.8109	1.72875	1.7748	1.8109	1.72165	1.73155	1.6763	1.74095	1.7013	
		3A	1.7954	1.8125	1.73130	1.7797	1.8125	1.72560	1.73130	1.6770	1.73870	1.6922	3B
			1.7947	1.8132	1.73105	1.7790	1.8132	1.72585	1.73155	1.6763	1.73845	1.6915	
1 13/16-12 or 1.8125-12	UN	2A	1.7978	1.8107	1.75660	1.7867	1.8107	1.75060	1.75840	1.7220	1.76620	1.7400	2B
			1.7972	1.8113	1.75635	1.7861	1.8113	1.75085	1.75865	1.7214	1.76595	1.7394	
		3A	1.7996	1.8125	1.75840	1.7900	1.8125	1.75390	1.75840	1.7220	1.76420	1.7323	3B
			1.7990	1.8131	1.75815	1.7894	1.8131	1.75415	1.75865	1.7214	1.76395	1.7317	
1 13/16-16 or 1.8125-16	UN	2A	1.8004	1.8109	1.77030	1.7921	1.8109	1.76500	1.77190	1.7450	1.77880	1.7590	2B
			1.7998	1.8115	1.77005	1.7915	1.8115	1.76525	1.77215	1.7444	1.77855	1.7584	
		3A	1.8020	1.8125	1.77190	1.7950	1.8125	1.76790	1.77190	1.7450	1.77710	1.7533	3B
			1.8014	1.8131	1.77165	1.7944	1.8131	1.76815	1.77215	1.7444	1.77685	1.7527	
1 13/16-20 or 1.8125-20	UN	2A	1.8020	1.8110	1.7785	1.7954	1.8110	1.7737	1.7800	1.7580	1.7863	1.7700	2B
			1.8015	1.8115	1.7783	1.7949	1.8115	1.7739	1.7802	1.7575	1.7861	1.7695	
		3A	1.8035	1.8125	1.7800	1.7981	1.8125	1.7764	1.7800	1.7580	1.7847	1.7662	3B
			1.8030	1.8130	1.7798	1.7976	1.8130	1.7766	1.7802	1.7575	1.7845	1.7657	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1⅞-6 or 1.875-6	UN	2A	1.8515	1.8725	1.76420	1.8280	1.8725	1.75580	1.76670	1.6950	1.77770	1.7250	2B
			1.8507	1.8733	1.76395	1.8272	1.8733	1.75605	1.76695	1.6942	1.77745	1.7242	
		3A	1.8540	1.8750	1.76670	1.8326	1.8750	1.76040	1.76670	1.6950	1.77490	1.7146	3B
			1.8532	1.8758	1.76645	1.8318	1.8758	1.76065	1.76695	1.6942	1.77465	1.7138	
1⅞-8 or 1.875-8	UN	2A	1.8556	1.8727	1.79150	1.8379	1.8727	1.78380	1.79380	1.7400	1.80380	1.7650	2B
			1.8549	1.8734	1.79125	1.8372	1.8734	1.78405	1.79405	1.7393	1.80355	1.7643	
		3A	1.8579	1.8750	1.79380	1.8422	1.8750	1.78810	1.79380	1.7400	1.80130	1.7547	3B
			1.8572	1.8757	1.79355	1.8415	1.8757	1.78835	1.79405	1.7393	1.80105	1.7540	
1⅞-12 or 1.875-12	UN	2A	1.8603	1.8732	1.81910	1.8492	1.8732	1.81310	1.82090	1.7850	1.82870	1.8030	2B
			1.8597	1.8738	1.81885	1.8486	1.8738	1.81335	1.82115	1.7844	1.82845	1.8024	
		3A	1.8621	1.8750	1.82090	1.8525	1.8750	1.81640	1.82090	1.7850	1.82670	1.7948	3B
			1.8615	1.8756	1.82065	1.8519	1.8756	1.81665	1.82115	1.7844	1.82645	1.7942	
1⅞-16 or 1.875-16	UN	2A	1.8629	1.8734	1.83280	1.8546	1.8734	1.82750	1.83440	1.8070	1.84130	1.8210	2B
			1.8623	1.8740	1.83255	1.8540	1.8740	1.82775	1.83465	1.8064	1.84105	1.8204	
		3A	1.8645	1.8750	1.83440	1.8575	1.8750	1.83040	1.83440	1.8070	1.83960	1.8158	3B
			1.8639	1.8756	1.83415	1.8569	1.8756	1.83065	1.83465	1.8064	1.83935	1.8152	
1⅞-20 or 1.875-20	UN	2A	1.8645	1.8735	1.8410	1.8579	1.8735	1.8362	1.8425	1.8210	1.8488	1.8320	2B
			1.8640	1.8740	1.8408	1.8574	1.8740	1.8364	1.8427	1.8205	1.8486	1.8315	
		3A	1.8660	1.8750	1.8425	1.8606	1.8750	1.8389	1.8425	1.8210	1.8472	1.8287	3B
			1.8655	1.8755	1.8423	1.8601	1.8755	1.8391	1.8427	1.8205	1.8470	1.8282	
1 15/16-6 or 1.9375-6	UN	2A	1.9139	1.9349	1.82660	1.8903	1.9349	1.81810	1.82920	1.7570	1.84030	1.7880	2B
			1.9131	1.9357	1.82635	1.8895	1.9357	1.81835	1.82945	1.7562	1.84005	1.7872	
		3A	1.9165	1.9375	1.82920	1.8950	1.9375	1.82280	1.82920	1.7570	1.83750	1.7771	3B
			1.9157	1.9383	1.82895	1.8942	1.9383	1.82305	1.82945	1.7562	1.83725	1.7763	
1 15/16-8 or 1.9375-8	UN	2A	1.9181	1.9352	1.85400	1.9004	1.9352	1.84630	1.85630	1.8020	1.86630	1.8270	2B
			1.9174	1.9359	1.85375	1.8997	1.9359	1.84655	1.85655	1.8013	1.86605	1.8263	
		3A	1.9204	1.9375	1.85630	1.9046	1.9375	1.85050	1.85630	1.8020	1.86380	1.8172	3B
			1.9197	1.9382	1.85605	1.9039	1.9382	1.85075	1.85655	1.8013	1.86355	1.8165	
1 15/16-12 or 1.9375-12	UN	2A	1.9228	1.9357	1.88160	1.9116	1.9357	1.87550	1.88340	1.8470	1.89130	1.8650	2B
			1.9222	1.9363	1.88135	1.9110	1.9363	1.87575	1.88365	1.8464	1.89105	1.8644	
		3A	1.9246	1.9375	1.88340	1.9150	1.9375	1.87890	1.88340	1.8470	1.88930	1.8573	3B
			1.9240	1.9381	1.88315	1.9144	1.9381	1.87915	1.88365	1.8464	1.88905	1.8567	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 15/16-16 or 1.9375-16	UN	2A	1.9254	1.9359	1.89530	1.9170	1.9359	1.88990	1.89690	1.8700	1.90390	1.8840	2B
			1.9248	1.9365	1.89505	1.9164	1.9365	1.89015	1.89715	1.8694	1.90365	1.8834	
		3A	1.9270	1.9375	1.89690	1.9200	1.9375	1.89290	1.89690	1.8700	1.90210	1.8783	3B
			1.9264	1.9381	1.89665	1.9194	1.9381	1.89315	1.89715	1.8694	1.90185	1.8777	
1 15/16-20 or 1.9375-20	UN	2A	1.9270	1.9360	1.9035	1.9203	1.9360	1.8986	1.9050	1.8830	1.9114	1.8950	2B
			1.9265	1.9365	1.9033	1.9198	1.9365	1.8988	1.9052	1.8825	1.9112	1.8945	
		3A	1.9285	1.9375	1.9050	1.9230	1.9375	1.9013	1.9050	1.8830	1.9098	1.8912	3B
			1.9280	1.9380	1.9048	1.9225	1.9380	1.9015	1.9052	1.8825	1.9096	1.8907	
2-4 1/2 or 2.000-4.5	UNC	1A	1.9713	1.9971	1.85280	1.9347	1.9971	1.83850	1.85570	1.7590	1.87430	1.7950	1B
			1.9705	1.9979	1.85255	1.9339	1.9979	1.83875	1.85595	1.7582	1.87405	1.7942	
		2A	1.9713	1.9971	1.85280	1.9395	1.9971	1.84330	1.85570	1.7590	1.86810	1.7950	2B
			1.9705	1.9979	1.85255	1.9387	1.9979	1.84355	1.85595	1.7582	1.86785	1.7942	
		3A	1.9742	2.0000	1.85570	1.9448	2.0000	1.84860	1.85570	1.7590	1.86500	1.7861	3B
			1.9734	2.0008	1.85545	1.9440	2.0008	1.84885	1.85595	1.7582	1.86475	1.7853	
2-6 or 2.000-6	UN	2A	1.9764	1.9974	1.88910	1.9527	1.9974	1.88050	1.89170	1.8200	1.90280	1.8500	2B
			1.9756	1.9982	1.88885	1.9519	1.9982	1.88075	1.89195	1.8192	1.90255	1.8492	
		3A	1.9790	2.0000	1.89170	1.9575	2.0000	1.88530	1.89170	1.8200	1.90000	1.8396	3B
			1.9782	2.0008	1.89145	1.9567	2.0008	1.88555	1.89195	1.8192	1.89975	1.8388	
2-8 or 2.000-8	UN	2A	1.9806	1.9977	1.91650	1.9628	1.9977	1.90870	1.91880	1.8650	1.92890	1.8900	2B
			1.9799	1.9984	1.91625	1.9621	1.9984	1.90895	1.91905	1.8643	1.92865	1.8893	
		3A	1.9829	2.0000	1.91880	1.9671	2.0000	1.91300	1.91880	1.8650	1.92640	1.8797	3B
			1.9822	2.0007	1.91855	1.9664	2.0007	1.91325	1.91905	1.8643	1.92615	1.8790	
2-12 or 2.000-12	UN	2A	1.9853	1.9982	1.94410	1.9741	1.9982	1.93800	1.94590	1.9100	1.95380	1.9280	2B
			1.9847	1.9988	1.94385	1.9735	1.9988	1.93825	1.94615	1.9094	1.95355	1.9274	
		3A	1.9871	2.0000	1.94590	1.9775	2.0000	1.94140	1.94590	1.9100	1.95180	1.9198	3B
			1.9865	2.0006	1.94565	1.9769	2.0006	1.94165	1.94615	1.9094	1.95155	1.9192	
2-16 or 2.000-16	UN	2A	1.9879	1.9984	1.95780	1.9795	1.9984	1.95240	1.95940	1.9320	1.96640	1.9460	2B
			1.9873	1.9990	1.95755	1.9789	1.9990	1.95265	1.95965	1.9314	1.96615	1.9454	
		3A	1.9895	2.0000	1.95940	1.9825	2.0000	1.95540	1.95940	1.9320	1.96460	1.9408	3B
			1.9889	2.0006	1.95915	1.9819	2.0006	1.95565	1.95965	1.9314	1.96435	1.9402	
2-20 or 2.000-20	UN	2A	1.9895	1.9985	1.9660	1.9828	1.9985	1.9611	1.9675	1.9460	1.9739	1.9570	2B
			1.9890	1.9990	1.9658	1.9823	1.9990	1.9613	1.9677	1.9455	1.9737	1.9565	
		3A	1.9910	2.0000	1.9675	1.9855	2.0000	1.9638	1.9675	1.9460	1.9723	1.9537	3B
			1.9905	2.0005	1.9673	1.9850	2.0005	1.9640	1.9677	1.9455	1.9721	1.9532	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2⅛-6 or 2.125-6	UN	2A	2.1014	2.1224	2.01410	2.0776	2.1224	2.00540	2.01670	1.9450	2.02800	1.9750	2B
			2.1006	2.1232	2.01385	2.0768	2.1232	2.00565	2.01695	1.9442	2.02775	1.9742	
		3A	2.1040	2.1250	2.01670	2.0824	2.1250	2.01020	2.01670	1.9450	2.02510	1.9646	3B
			2.1032	2.1258	2.01645	2.0816	2.1258	2.01045	2.01695	1.9442	2.02485	1.9638	
2⅛-8 or 2.125-8	UN	2A	2.1055	2.1226	2.04140	2.0876	2.1226	2.03350	2.04380	1.9900	2.05400	2.0150	2B
			2.1048	2.1233	2.04115	2.0869	2.1233	2.03375	2.04405	1.9893	2.05375	2.0143	
		3A	2.1079	2.1250	2.04380	2.0920	2.1250	2.03790	2.04380	1.9900	2.05150	2.0047	3B
			2.1072	2.1257	2.04355	2.0913	2.1257	2.03815	2.04405	1.9893	2.05125	2.0040	
2⅛-12 or 2.125-12	UN	2A	2.1103	2.1232	2.06910	2.0991	2.1232	2.06300	2.07090	2.0350	2.07880	2.0530	2B
			2.1097	2.1238	2.06885	2.0985	2.1238	2.06325	2.07115	2.0344	2.07855	2.0524	
		3A	2.1121	2.1250	2.07090	2.1025	2.1250	2.06640	2.07090	2.0350	2.07680	2.0448	3B
			2.1115	2.1256	2.07065	2.1019	2.1256	2.06665	2.07115	2.0344	2.07655	2.0442	
2⅛-16 or 2.125-16	UN	2A	2.1129	2.1234	2.08280	2.1045	2.1234	2.07740	2.08440	2.0570	2.09140	2.0710	2B
			2.1123	2.1240	2.08255	2.1039	2.1240	2.07765	2.08465	2.0564	2.09115	2.0704	
		3A	2.1145	2.1250	2.08440	2.1075	2.1250	2.08040	2.08440	2.0570	2.08960	2.0658	3B
			2.1139	2.1256	2.08415	2.1069	2.1256	2.08065	2.08465	2.0564	2.08935	2.0652	
2⅛-20 or 2.125-20	UN	2A	2.1145	2.1235	2.0910	2.1078	2.1235	2.0861	2.0925	2.0710	2.0989	2.0820	2B
			2.1140	2.1240	2.0908	2.1073	2.1240	2.0863	2.0927	2.0705	2.0987	2.0815	
		3A	2.1160	2.1250	2.0925	2.1105	2.1250	2.0888	2.0925	2.0710	2.0973	2.0787	3B
			2.1155	2.1255	2.0923	2.1100	2.1255	2.0890	2.0927	2.0705	2.0971	2.0782	
2¼-4½ or 2.250-4.5	UNC	1A	2.2213	2.2471	2.10280	2.1844	2.2471	2.08820	2.10570	2.0090	2.12470	2.0450	1B
			2.2205	2.2479	2.10255	2.1836	2.2479	2.08845	2.10595	2.0082	2.12445	2.0442	
		2A	2.2213	2.2471	2.10280	2.1893	2.2471	2.09310	2.10570	2.0090	2.11830	2.0450	2B
			2.2205	2.2479	2.10255	2.1885	2.2479	2.09335	2.10595	2.0082	2.11805	2.0442	
		3A	2.2242	2.2500	2.10570	2.1946	2.2500	2.09840	2.10570	2.0090	2.11520	2.0361	3B
			2.2234	2.2508	2.10545	2.1938	2.2508	2.09865	2.10595	2.0082	2.11495	2.0353	
2¼-6 or 2.250-6	UN	2A	2.2264	2.2474	2.13910	2.2025	2.2474	2.13030	2.14170	2.0700	2.15310	2.1000	2B
			2.2256	2.2482	2.13885	2.2017	2.2482	2.13055	2.14195	2.0692	2.15285	2.0992	
		3A	2.2290	2.2500	2.14170	2.2073	2.2500	2.13510	2.14170	2.0700	2.15020	2.0896	3B
			2.2282	2.2508	2.14145	2.2065	2.2508	2.13535	2.14195	2.0692	2.14995	2.0888	
2¼-8 or 2.250-8	UN	2A	2.2305	2.2476	2.16640	2.2125	2.2476	2.15840	2.16880	2.1150	2.17920	2.1400	2B
			2.2298	2.2483	2.16615	2.2118	2.2483	2.15865	2.16905	2.1143	2.17895	2.1393	
		3A	2.2329	2.2500	2.16880	2.2169	2.2500	2.16280	2.16880	2.1150	2.17660	2.1297	3B
			2.2322	2.2507	2.16855	2.2162	2.2507	2.16305	2.16905	2.1143	2.17635	2.1290	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2¼-12 or 2.250-12	UN	2A	2.2353	2.2482	2.19410	2.2241	2.2482	2.18800	2.19590	2.1600	2.20380	2.1780	2B
			2.2347	2.2488	2.19385	2.2235	2.2488	2.18825	2.19615	2.1594	2.20355	2.1774	
		3A	2.2371	2.2500	2.19590	2.2275	2.2500	2.19140	2.19590	2.1600	2.20180	2.1698	3B
			2.2365	2.2506	2.19565	2.2269	2.2506	2.19165	2.19615	2.1594	2.20155	2.1692	
2¼-16 or 2.250-16	UN	2A	2.2379	2.2484	2.20780	2.2295	2.2484	2.20240	2.20940	2.1820	2.21640	2.1960	2B
			2.2373	2.2490	2.20755	2.2289	2.2490	2.20265	2.20965	2.1814	2.21615	2.1954	
		3A	2.2395	2.2500	2.20940	2.2325	2.2500	2.20540	2.20940	2.1820	2.21460	2.1908	3B
			2.2389	2.2506	2.20915	2.2319	2.2506	2.20565	2.20965	2.1814	2.21435	2.1902	
2¼-20 or 2.250-20	UN	2A	2.2395	2.2485	2.2160	2.2328	2.2485	2.2111	2.2175	2.1960	2.2239	2.2070	2B
			2.2390	2.2490	2.2158	2.2323	2.2490	2.2113	2.2177	2.1955	2.2237	2.2065	
		3A	2.2410	2.2500	2.2175	2.2355	2.2500	2.2138	2.2175	2.1960	2.2223	2.2037	3B
			2.2405	2.2505	2.2173	2.2350	2.2505	2.2140	2.2177	2.1955	2.2221	2.2032	
2⅜-6 or 2.375-6	UN	2A	2.3513	2.3723	2.26400	2.3273	2.3723	2.25510	2.26670	2.1950	2.27820	2.2260	2B
			2.3505	2.3731	2.26375	2.3265	2.3731	2.25535	2.26695	2.1942	2.27795	2.2252	
		3A	2.3540	2.3750	2.26670	2.3323	2.3750	2.26010	2.26670	2.1950	2.27530	2.2146	3B
			2.3532	2.3758	2.26645	2.3315	2.3758	2.26035	2.26695	2.1942	2.27505	2.2138	
2⅜-8 or 2.375-8	UN	2A	2.3555	2.3726	2.29140	2.3374	2.3726	2.28330	2.29380	2.2400	2.30430	2.2650	2B
			2.3548	2.3733	2.29115	2.3367	2.3733	2.28355	2.29405	2.2393	2.30405	2.2643	
		3A	2.3579	2.3750	2.29380	2.3419	2.3750	2.28780	2.29380	2.2400	2.30170	2.2547	3B
			2.3572	2.3757	2.29355	2.3412	2.3757	2.28805	2.29405	2.2393	2.30145	2.2540	
2⅜-12 or 2.375-12	UN	2A	2.3602	2.3731	2.31900	2.3489	2.3731	2.31280	2.32090	2.2850	2.32900	2.3030	2B
			2.3596	2.3737	2.31875	2.3483	2.3737	2.31305	2.32115	2.2844	2.32875	2.3024	
		3A	2.3621	2.3750	2.32090	2.3524	2.3750	2.31630	2.32090	2.2850	2.32690	2.2948	3B
			2.3615	2.3756	2.32065	2.3518	2.3756	2.31655	2.32115	2.2844	2.32665	2.2942	
2⅜-16 or 2.375-16	UN	2A	2.3628	2.3733	2.33270	2.3543	2.3733	2.32720	2.33440	2.3070	2.34160	2.3210	2B
			2.3622	2.3739	2.33245	2.3537	2.3739	2.32745	2.33465	2.3064	2.34135	2.3204	
		3A	2.3645	2.3750	2.33440	2.3574	2.3750	2.33030	2.33440	2.3070	2.33980	2.3158	3B
			2.3639	2.3756	2.33415	2.3568	2.3756	2.33055	2.33465	2.3064	2.33955	2.3152	
2⅜-20 or 2.375-20	UN	2A	2.3645	2.3735	2.3410	2.3576	2.3735	2.3359	2.3425	2.3210	2.3491	2.3320	2B
			2.3640	2.3740	2.3408	2.3571	2.3740	2.3361	2.3427	2.3205	2.3489	2.3315	
		3A	2.3660	2.3750	2.3425	2.3604	2.3750	2.3387	2.3425	2.3210	2.3475	2.3287	3B
			2.3655	2.3755	2.3423	2.3599	2.3755	2.3389	2.3427	2.3205	2.3473	2.3282	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2½-4 or 2.500-4	UNC	1A	2.4688	2.4969	2.33450	2.4273	2.4969	2.31900	2.33760	2.2290	2.35780	2.2670	1B
			2.4679	2.4978	2.33425	2.4264	2.4978	2.31925	2.33785	2.2281	2.35755	2.2661	
		2A	2.4688	2.4969	2.33450	2.4324	2.4969	2.32410	2.33760	2.2290	2.35110	2.2670	2B
			2.4679	2.4978	2.33425	2.4315	2.4978	2.32435	2.33785	2.2281	2.35085	2.2661	
		3A	2.4719	2.5000	2.33760	2.4381	2.5000	2.32980	2.33760	2.2290	2.34770	2.2594	3B
			2.4710	2.5009	2.33735	2.4372	2.5009	2.33005	2.33785	2.2281	2.34745	2.2585	
2½-6 or 2.500-6	UN	2A	2.4763	2.4973	2.38900	2.4623	2.4973	2.38000	2.39170	2.3200	2.40330	2.3500	2B
			2.4755	2.4981	2.38875	2.4514	2.4981	2.38025	2.39195	2.3192	2.40305	2.3492	
		3A	2.4790	2.5000	2.39170	2.4572	2.5000	2.38500	2.39170	2.3200	2.40040	2.3396	3B
			2.4782	2.5008	2.39145	2.4564	2.5008	2.38525	2.39195	2.3192	2.40015	2.3388	
2½-8 or 2.500-8	UN	2A	2.4805	2.4976	2.41640	2.4623	2.4976	2.40820	2.41880	2.3650	2.42940	2.3900	2B
			2.4798	2.4983	2.41615	2.4616	2.4983	2.40845	2.41905	2.3643	2.42915	2.3893	
		3A	2.4829	2.5000	2.41880	2.4668	2.5000	2.41270	2.41880	2.3650	2.42680	2.3797	3B
			2.4822	2.5007	2.41855	2.4661	2.5007	2.41295	2.41905	2.3643	2.42655	2.3790	
2½-12 or 2.500-12	UN	2A	2.4852	2.4981	2.44400	2.4739	2.4981	2.43780	2.44590	2.4100	2.45400	2.4280	2B
			2.4846	2.4987	2.44375	2.4733	2.4987	2.43805	2.44615	2.4094	2.45375	2.4274	
		3A	2.4871	2.5000	2.44590	2.4774	2.5000	2.44130	2.44590	2.4100	2.45190	2.4198	3B
			2.4865	2.5006	2.44565	2.4768	2.5006	2.44155	2.44615	2.4094	2.45165	2.4192	
2½-16 or 2.500-16	UN	2A	2.4878	2.4983	2.45770	2.4793	2.4985	2.45220	2.45940	2.4320	2.46660	2.4460	2B
			2.4872	2.4989	2.45745	2.4787	2.4990	2.45245	2.45965	2.3414	2.46635	2.4454	
		3A	2.4895	2.5000	2.45940	2.4824	2.5000	2.45530	2.45940	2.4320	2.46480	2.4408	3B
			2.4889	2.5006	2.45915	2.4818	2.5006	2.45555	2.45965	2.4314	2.46455	2.4402	
2½-20 or 2.500-20	UN	2A	2.4895	2.4985	2.4660	2.4826	2.4985	2.4609	2.4675	2.4460	2.4741	2.4570	2B
			2.4890	2.4990	2.4658	2.4821	2.4990	2.4611	2.4677	2.4455	2.4739	2.4565	
		3A	2.4910	2.5000	2.4675	2.4854	2.5000	2.4637	2.4675	2.4460	2.4725	2.4537	3B
			2.4905	2.5005	2.4673	2.4849	2.5005	2.4639	2.4677	2.4455	2.4723	2.4532	
2⅝-6 or 2.625-6	UN	2A	2.6013	2.6223	2.51400	2.5772	2.6223	2.50500	2.51670	2.4450	2.52850	2.4750	2B
			2.6005	2.6231	2.51375	2.5764	2.6231	2.50525	2.51695	2.4442	2.52825	2.4742	
		3A	2.6040	2.6250	2.51670	2.5821	2.6250	2.50990	2.51670	2.4450	2.52550	2.4646	3B
			2.6032	2.6258	2.51645	2.5813	2.6258	2.51015	2.51695	2.4442	2.52525	2.4638	
2⅝-8 or 2.625-8	UN	2A	2.6054	2.6225	2.54130	2.5872	2.6225	2.53310	2.54380	2.4900	2.55450	2.5150	2B
			2.6047	2.6232	2.54105	2.5865	2.6232	2.53335	2.54405	2.4893	2.55425	2.5143	
		3A	2.6079	2.6250	2.54380	2.5917	2.6250	2.53760	2.54380	2.4900	2.55180	2.5047	3B
			2.6072	2.6257	2.54355	2.5910	2.6257	2.53785	2.54405	2.4893	2.55155	2.5040	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2⅝-12 or 2.625-12	UN	2A	2.6102	2.6231	2.56900	2.5989	2.6231	2.56280	2.57090	2.5350	2.57900	2.5530	2B
			2.6096	2.6237	2.56875	2.5983	2.6237	2.56305	2.57115	2.5344	2.57875	2.5524	
		3A	2.6121	2.6250	2.57090	2.6024	2.6250	2.56630	2.57090	2.5350	2.57690	2.5448	3B
			2.6115	2.6256	2.57065	2.6018	2.6256	2.56655	2.57115	2.5344	2.57665	2.5442	
2⅝-16 or 2.625-16	UN	2A	2.6128	2.6233	2.58270	2.6043	2.6233	2.57720	2.58440	2.5570	2.59160	2.5710	2B
			2.6122	2.6239	2.58245	2.6037	2.6239	2.57745	2.58465	2.5564	2.59135	2.5704	
		3A	2.6145	2.6250	2.58440	2.6074	2.6250	2.58030	2.58440	2.5570	2.58980	2.5658	3B
			2.6139	2.6256	2.58415	2.6068	2.6256	2.58055	2.58465	2.5564	2.58955	2.5652	
2⅝-20 or 2.625-20	UN	2A	2.6145	2.6235	2.5910	2.6076	2.6235	2.5859	2.5925	2.5710	2.5991	2.5820	2B
			2.6140	2.6240	2.5908	2.6071	2.6240	2.5861	2.5927	2.5705	2.5989	2.5815	
		3A	2.6160	2.6250	2.5925	2.6104	2.6250	2.5887	2.5925	2.5710	2.5975	2.5787	3B
			2.6155	2.6255	2.5923	2.6099	2.6255	2.5889	2.5927	2.5705	2.5973	2.5782	
2¾-4 or 2.750-4	UNC	1A	2.7187	2.7468	2.58440	2.6769	2.7468	2.56860	2.58760	2.4790	2.60820	2.5170	1B
			2.7178	2.7477	2.58415	2.6760	2.7477	2.56885	2.58785	2.4781	2.60795	2.5161	
		2A	2.7187	2.7468	2.58440	2.6822	2.7468	2.57390	2.58760	2.4790	2.60130	2.5170	2B
			2.7178	2.7477	2.58415	2.6813	2.7477	2.57415	2.58785	2.4781	2.60105	2.5161	
		3A	2.7219	2.7500	2.58760	2.6880	2.7500	2.57970	2.58760	2.4790	2.59790	2.5094	3B
			2.7210	2.7509	2.58735	2.6871	2.7509	2.57995	2.58785	2.4781	2.59765	2.5085	
2¾-6 or 2.750-6	UN	2A	2.7263	2.7473	2.63900	2.7021	2.7473	2.62990	2.64170	2.5700	2.65360	2.6000	2B
			2.7255	2.7481	2.63875	2.7013	2.7481	2.63015	2.64195	2.5692	2.65335	2.5992	
		3A	2.7290	2.7500	2.64170	2.7071	2.7500	2.63490	2.64170	2.5700	2.65060	2.5896	3B
			2.7282	2.7508	2.64145	2.7063	2.7508	2.63515	2.64195	2.5692	2.65035	2.5888	
2¾-8 or 2.750-8	UN	2A	2.7304	2.7475	2.66630	2.7121	2.7475	2.65800	2.66880	2.6150	2.67960	2.6400	2B
			2.7297	2.7482	2.66605	2.7114	2.7482	2.65825	2.66905	2.6143	2.67935	2.6393	
		3A	2.7329	2.7500	2.66880	2.7167	2.7500	2.66250	2.66880	2.6150	2.67690	2.6297	3B
			2.7322	2.7507	2.66855	2.7160	2.7507	2.66275	2.66905	2.6143	2.67665	2.6290	
2¾-12 or 2.750-12	UN	2A	2.7352	2.7481	2.69400	2.7239	2.7481	2.68780	2.69590	2.6600	2.70400	2.6780	2B
			2.7346	2.7487	2.69375	2.7233	2.7487	2.68805	2.69615	2.6594	2.70375	2.6774	
		3A	2.7371	2.7500	2.69590	2.7274	2.7500	2.69130	2.69590	2.6600	2.70190	2.6698	3B
			2.7365	2.7506	2.69565	2.7268	2.7506	2.69155	2.69615	2.6594	2.70165	2.6692	
2¾-16 or 2.750-16	UN	2A	2.7378	2.7483	2.70770	2.7293	2.7483	2.70220	2.70940	2.6820	2.71660	2.6960	2B
			2.7372	2.7489	2.70745	2.7287	2.7489	2.70245	2.70965	2.6814	2.71635	2.6954	
		3A	2.7395	2.7500	2.70940	2.7324	2.7500	2.70530	2.70940	2.6820	2.71480	2.6908	3B
			2.7389	2.7506	2.70915	2.7318	2.7506	2.70555	2.70965	2.6814	2.71455	2.6902	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
2¾-20 or 2.750-20	UN	2A	2.7395	2.7485	2.7160	2.7326	2.7485	2.7109	2.7175	2.6960	2.7241	2.7070	2B
			2.7390	2.7490	2.7158	2.7321	2.7490	2.7111	2.7177	2.6955	2.7239	2.7065	
		3A	2.7410	2.7500	2.7175	2.7354	2.7500	2.7137	2.7175	2.6960	2.7225	2.7037	3B
			2.7405	2.7505	2.7173	2.7349	2.7505	2.7139	2.7177	2.6955	2.7223	2.7032	
2⅞-6 or 2.875-6	UN	2A	2.8512	2.8722	2.76390	2.8269	2.8722	2.75470	2.76670	2.6950	2.77870	2.7250	2B
			2.8504	2.8730	2.76365	2.8261	2.8730	2.75495	2.76695	2.6942	2.77845	2.7242	
		3A	2.8540	2.8750	2.76670	2.8320	2.8750	2.75980	2.76670	2.6950	2.77570	2.7146	3B
			2.8532	2.8758	2.76645	2.8312	2.8758	2.76005	2.76695	2.6942	2.77545	2.7138	
2⅞-8 or 2.875-8	UN	2A	2.8554	2.8725	2.79130	2.8370	2.8725	2.78290	2.79380	2.7400	2.80480	2.7650	2B
			2.8547	2.8732	2.79105	2.8363	2.8732	2.78315	2.79405	2.7393	2.80455	2.7643	
		3A	2.8579	2.8750	2.79380	2.8416	2.8750	2.78750	2.79380	2.7400	2.80200	2.7547	3B
			2.8572	2.8757	2.79355	2.8409	2.8757	2.78775	2.79405	2.7393	2.80175	2.7540	
2⅞-12 or 2.875-12	UN	2A	2.8602	2.8731	2.81900	2.8488	2.8731	2.81270	2.82090	2.7850	2.82910	2.8030	2B
			2.8596	2.8737	2.81875	2.8482	2.8737	2.81295	2.82115	2.7844	2.82885	2.8024	
		3A	2.8621	2.8750	2.82090	2.8523	2.8750	2.81620	2.82090	2.7850	2.82710	2.7948	3B
			2.8615	2.8756	2.82065	2.8517	2.8756	2.81645	2.82115	2.7844	2.82685	2.7942	
2⅞-16 or 2.875-16	UN	2A	2.8628	2.8733	2.83270	2.8542	2.8733	2.82710	2.83440	2.8070	2.84170	2.8210	2B
			2.8622	2.8739	2.83245	2.8536	2.8739	2.82735	2.83465	2.8064	2.84145	2.8204	
		3A	2.8645	2.8750	2.83440	2.8573	2.8750	2.83020	2.83440	2.8070	2.83990	2.8158	3B
			2.8639	2.8756	2.83415	2.8567	2.8756	2.83045	2.83465	2.8064	2.83965	2.8152	
2⅞-20 or 2.875-20	UN	2A	2.8644	2.8734	2.8409	2.8574	2.8734	2.8357	2.8425	2.8210	2.8493	2.8320	2B
			2.8639	2.8739	2.8407	2.8569	2.8739	2.8359	2.8427	2.8205	2.8491	2.8315	
		3A	2.8660	2.8750	2.8425	2.8603	2.8750	2.8386	2.8425	2.8210	2.8476	2.8287	3B
			2.8655	2.8755	2.8423	2.8598	2.8755	2.8388	2.8427	2.8205	2.8474	2.8282	
3-4 or 3.000-4	UNC	1A	2.9687	2.9968	2.83440	2.9266	2.9968	2.81830	2.83760	2.7290	2.85850	2.7670	1B
			2.9678	2.9977	2.83415	2.9257	2.9977	2.81855	2.83785	2.7281	2.85825	2.7661	
		2A	2.9687	2.9968	2.83440	2.9320	2.9968	2.82370	2.83760	2.7290	2.85150	2.7670	2B
			2.9678	2.9977	2.83415	2.9311	2.9977	2.82395	2.83785	2.7281	2.85125	2.7661	
		3A	2.9719	3.0000	2.83760	2.9379	3.0000	2.82960	2.83760	2.7290	2.84800	2.7594	3B
			2.9710	3.0009	2.83735	2.9370	3.0009	2.82985	2.83785	2.7281	2.84775	2.7585	
3-6 or 3.000-6	UN	2A	2.9762	2.9972	2.88890	2.9518	2.9972	2.87960	2.89170	2.8200	2.90380	2.8500	2B
			2.9754	2.9980	2.88865	2.9510	2.9980	2.87985	2.89195	2.8192	2.90355	2.8492	
		3A	2.9790	3.0000	2.89170	2.9569	3.0000	2.88470	2.89170	2.8200	2.90080	2.8396	3B
			2.9782	3.0008	2.89145	2.9561	3.0008	2.88495	2.89195	2.8192	2.90055	2.8388	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3-8 or 3.000-8	UN	2A	2.9803	2.9974	2.91620	2.9618	2.9974	2.90770	2.91880	2.8650	2.92990	2.8900	2B
			2.9796	2.9981	2.91595	2.9611	2.9981	2.90795	2.91905	2.8643	2.92965	2.8893	
		3A	2.9829	3.0000	2.91880	2.9665	3.0000	2.91240	2.91880	2.8650	2.92710	2.8797	3B
			2.9822	3.0007	2.91855	2.9658	3.0007	2.91265	2.91905	2.8643	2.92685	2.8790	
3-12 or 3.000-12	UN	2A	2.9852	2.9981	2.94400	2.9738	2.9981	2.93770	2.94590	2.9100	2.95410	2.9280	2B
			2.9846	2.9987	2.94375	2.9732	2.9987	2.93795	2.94615	2.9094	2.95385	2.9274	
		3A	2.9871	3.0000	2.94590	2.9773	3.0000	2.94120	2.94590	2.9100	2.95210	2.9198	3B
			2.9865	3.0006	2.94565	2.9767	3.0006	2.94145	2.94615	2.9094	2.95185	2.9192	
3-16 or 3.000-16	UN	2A	2.9878	2.9983	2.95770	2.9792	2.9983	2.95210	2.95940	2.9320	2.96670	2.9460	2B
			2.9872	2.9989	2.95745	2.9786	2.9989	2.95235	2.95965	2.9314	2.96645	2.9454	
		3A	2.9895	3.0000	2.95940	2.9823	3.0000	2.95520	2.95940	2.9320	2.96490	2.9408	3B
			2.9889	3.0006	2.95915	2.9817	3.0006	2.95545	2.95965	2.9314	2.96465	2.9402	
3-20 or 3.000-20	UN	2A	2.9894	2.9984	2.9659	2.9824	2.9984	2.9607	2.9675	2.9460	2.9743	2.9570	2B
			2.9889	2.9989	2.9657	2.9819	2.9989	2.9609	2.9677	2.9455	2.9741	2.9565	
		3A	2.9910	3.0000	2.9675	2.9853	3.0000	2.9636	2.9675	2.9460	2.9726	2.9537	3B
			2.9905	3.0005	2.9673	2.9848	3.0005	2.9638	2.9677	2.9455	2.9724	2.9532	
3⅛-6 or 3.125-6	UN	2A	3.1012	3.1222	3.01390	3.0767	3.1222	3.00450	3.01670	2.9450	3.02890	2.9750	2B
			3.1004	3.1230	3.01365	3.0759	3.1230	3.00475	3.01695	2.9442	3.02865	2.9742	
		3A	3.1040	3.1250	3.01670	3.0819	3.1250	3.00970	3.01670	2.9450	3.02590	2.9646	3B
			3.1032	3.1258	3.01645	3.0811	3.1258	3.00995	3.01695	2.9442	3.02565	2.9638	
3⅛-8 or 3.125-8	UN	2A	3.1053	3.1224	3.04120	3.0867	3.1224	3.03260	3.04380	2.9900	3.05500	3.0150	2B
			3.1046	3.1231	3.04095	3.0860	3.1231	3.03285	3.04405	2.9893	3.05475	3.0143	
		3A	3.1079	3.1250	3.04380	3.0915	3.1250	3.03740	3.04380	2.9900	3.05220	3.0047	3B
			3.1072	3.1257	3.04355	3.0908	3.1257	3.03765	3.04405	2.9893	3.05195	3.0040	
3⅛-12 or 3.125-12	UN	2A	3.1102	3.1231	3.06900	3.0988	3.1231	3.06270	3.07090	3.0350	3.07910	3.0530	2B
			3.1096	3.1237	3.06875	3.0982	3.1237	3.06295	3.07115	3.0344	3.07885	3.0524	
		3A	3.1121	3.1250	3.07090	3.1023	3.1250	3.06620	3.07090	3.0350	3.07710	3.0448	3B
			3.1115	3.1256	3.07065	3.1017	3.1256	3.06645	3.07115	3.0344	3.07685	3.0442	
3⅛-16 or 3.125-16	UN	2A	3.1128	3.1233	3.08270	3.1042	3.1233	3.07710	3.08440	3.0570	3.09170	3.0710	2B
			3.1122	3.1239	3.08245	3.1036	3.1239	3.07735	3.08465	3.0564	3.09145	3.0704	
		3A	3.1145	3.1250	3.08440	3.1073	3.1250	3.08020	3.08440	3.0570	3.08990	3.0658	3B
			3.1139	3.1256	3.08415	3.1067	3.1256	3.08045	3.08465	3.0564	3.08965	3.0652	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3¼-4 or 3.250-4	UNC	1A	3.2186	3.2467	3.08430	3.1763	3.2467	3.06800	3.08760	2.9790	3.10880	3.0170	1B
			3.2177	3.2476	3.08405	3.1754	3.2476	3.06825	3.08785	2.9781	3.10855	3.0161	
		2A	3.2186	3.2467	3.08430	3.1817	3.2467	3.07340	3.08760	2.9790	3.10170	3.0170	2B
			3.2177	3.2476	3.08405	3.1808	3.2476	3.07365	3.08785	2.9781	3.10145	3.0161	
		3A	3.2219	3.2500	3.08760	3.1877	3.2500	3.07940	3.08760	2.9790	3.09820	3.0094	3B
			3.2210	3.2509	3.08735	3.1868	3.2509	3.07965	3.08785	2.9781	3.09795	3.0085	
3¼-6 or 3.250-6	UN	2A	3.2262	3.2472	3.13890	3.2016	3.2472	3.12940	3.14170	3.0700	3.15400	3.1000	2B
			3.2254	3.2480	3.13865	3.2008	3.2480	3.12965	3.14195	3.0692	3.15375	3.0992	
		3A	3.2290	3.2500	3.14170	3.2068	3.2500	3.13460	3.14170	3.0700	3.15090	3.0896	3B
			3.2282	3.2508	3.14145	3.2060	3.2508	3.13485	3.14195	3.0692	3.15065	3.0888	
3¼-8 or 3.250-8	UN	2A	3.2303	3.2474	3.16620	3.2116	3.2474	3.15750	3.16880	3.1150	3.18010	3.1400	2B
			3.2296	3.2481	3.16595	3.2109	3.2481	3.15775	3.16905	3.1143	3.17985	3.1393	
		3A	3.2329	3.2500	3.16880	3.2164	3.2500	3.16230	3.16880	3.1150	3.17730	3.1297	3B
			3.2322	3.2507	3.16855	3.2157	3.2507	3.16255	3.16905	3.1143	3.17705	3.1290	
3¼-12 or 3.250-12	UN	2A	3.2352	3.2481	3.19400	3.2238	3.2481	3.18770	3.19590	3.1600	3.20410	3.1780	2B
			3.2346	3.2487	3.19375	3.2232	3.2487	3.18795	3.19615	3.1594	3.20385	3.1774	
		3A	3.2371	3.2500	3.19590	3.2273	3.2500	3.19120	3.19590	3.1600	3.20210	3.1698	3B
			3.2365	3.2506	3.19565	3.2267	3.2506	3.19145	3.19615	3.1594	3.20185	3.1692	
3¼-16 or 3.250-16	UN	2A	3.2378	3.2483	3.20770	3.2292	3.2483	3.20210	3.20940	3.1820	3.21670	3.1960	2B
			3.2372	3.2489	3.20745	3.2286	3.2489	3.20235	3.20965	3.1814	3.21645	3.1954	
		3A	3.2395	3.2500	3.20940	3.2323	3.2500	3.20520	3.20940	3.1820	3.21490	3.1908	3B
			3.2389	3.2506	3.20915	3.2317	3.2506	3.20545	3.20965	3.1814	3.21465	3.1902	
3⅜-6 or 3.375-6	UN	2A	3.3511	3.3721	3.26380	3.3265	3.3721	3.25430	3.26670	3.1950	3.27910	3.2250	2B
			3.3503	3.3729	3.26355	3.3257	3.3729	3.25455	3.26695	3.1942	3.27885	3.2242	
		3A	3.3540	3.3750	3.26670	3.3317	3.3750	3.25950	3.26670	3.1950	3.27600	3.2146	3B
			3.3532	3.3758	3.26645	3.3309	3.3758	3.25975	3.26695	3.1942	3.27575	3.2138	
3⅜-8 or 3.375-8	UN	2A	3.3553	3.3724	3.29120	3.3365	3.3724	3.28240	3.29380	3.2400	3.30520	3.2650	2B
			3.3546	3.3731	3.29095	3.3358	3.3731	3.28265	3.29405	3.2393	3.30495	3.2643	
		3A	3.3579	3.3750	3.29380	3.3413	3.3750	3.28720	3.29380	3.2400	3.30230	3.2547	3B
			3.3572	3.3757	3.29355	3.3406	3.3757	3.28745	3.29405	3.2393	3.30205	3.2540	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3⅜-12 or 3.375-12	UN	2A	3.3602	3.3731	3.31900	3.3487	3.3731	3.31260	3.32090	3.2850	3.32930	3.3030	2B
			3.3596	3.3737	3.31875	3.3481	3.3737	3.31285	3.32115	3.2844	3.32905	3.3024	
		3A	3.3621	3.3750	3.32090	3.3522	3.3750	3.31610	3.32090	3.2850	3.32720	3.2948	3B
			3.3615	3.3756	3.32065	3.3516	3.3756	3.31635	3.32115	3.2844	3.32695	3.2942	
3⅜-16 or 3.375-16	UN	2A	3.3628	3.3733	3.33270	3.3540	3.3733	3.32690	3.33440	3.3070	3.34190	3.3210	2B
			3.3622	3.3739	3.33245	3.3534	3.3739	3.32715	3.33465	3.3064	3.34165	3.3204	
		3A	3.3645	3.3750	3.33440	3.3572	3.3750	3.33010	3.33440	3.3070	3.34000	3.3158	3B
			3.3639	3.3756	3.33415	3.3566	3.3756	3.33035	3.33465	3.3064	3.33975	3.3152	
3½-4 or 3.500-4	UNC	1A	3.4686	3.4967	3.33430	3.4260	3.4967	3.31770	3.33760	3.2290	3.35910	3.2670	1B
			3.4677	3.4976	3.33405	3.4251	3.4976	3.31795	3.33785	3.2281	3.35885	3.2661	
		2A	3.4686	3.4967	3.33430	3.4316	3.4967	3.32330	3.33760	3.2290	3.35190	3.2670	2B
			3.4677	3.4976	3.33405	3.4307	3.4976	3.32355	3.33785	3.2281	3.35165	3.2661	
		3A	3.4719	3.5000	3.33760	3.4376	3.5000	3.32930	3.33760	3.2290	3.34840	3.2594	3B
			3.4710	3.5009	3.33735	3.4367	3.5009	3.32955	3.33785	3.2281	3.34815	3.2585	
3½-6 or 3.500-6	UN	2A	3.4761	3.4971	3.38880	3.4514	3.4971	3.37920	3.39170	3.3200	3.40420	3.3500	2B
			3.4753	3.4979	3.38855	3.4506	3.4979	3.37945	3.39195	3.3192	3.40395	3.3492	
		3A	3.4790	3.5000	3.39170	3.4567	3.5000	3.38450	3.39170	3.3200	3.40110	3.3396	3B
			3.4782	3.5008	3.39145	3.4559	3.5008	3.38475	3.39195	3.3192	3.40085	3.3388	
3½-8 or 3.500-8	UN	2A	3.4803	3.4974	3.41620	3.4615	3.4974	3.40740	3.41880	3.3650	3.43030	3.3900	2B
			3.4796	3.4981	3.41595	3.4608	3.4981	3.40765	3.41905	3.3643	3.43005	3.3893	
		3A	3.4829	3.5000	3.41880	3.4663	3.5000	3.41220	3.41880	3.3650	3.42740	3.3797	3B
			3.4822	3.5007	3.41855	3.4656	3.5007	3.41245	3.41905	3.3643	3.42715	3.3790	
3½-12 or 3.500-12	UN	2A	3.4852	3.4981	3.44400	3.4737	3.4981	3.43760	3.44590	3.4100	3.45430	3.4280	2B
			3.4846	3.4987	3.44375	3.4731	3.4987	3.43785	3.44615	3.4094	3.45405	3.4274	
		3A	3.4871	3.5000	3.44590	3.4772	3.5000	3.44110	3.44590	3.4100	3.45220	3.4198	3B
			3.4865	3.5006	3.44565	3.4766	3.5006	3.44135	3.44615	3.4094	3.45195	3.4192	
3½-16 or 3.500-16	UN	2A	3.4878	3.4983	3.45770	3.4790	3.4983	3.45190	3.45940	3.4320	3.46690	3.4460	2B
			3.4872	3.4989	3.45745	3.4784	3.4989	3.45215	3.45965	3.4314	3.46665	3.4454	
		3A	3.4895	3.5000	3.45940	3.4822	3.5000	3.45510	3.45940	3.4320	3.46500	3.4408	3B
			3.4889	3.5006	3.45915	3.4816	3.5006	3.45535	3.45965	3.4314	3.46475	3.4402	
3⅝-6 or 3.625-6	UN	2A	3.6011	3.6221	3.51380	3.5763	3.6221	3.50410	3.51670	3.4450	3.52930	3.4750	2B
			3.6003	3.6229	3.51355	3.5755	3.6229	3.50435	3.51695	3.4442	3.52905	3.4742	
		3A	3.6040	3.6250	3.51670	3.5816	3.6250	3.50940	3.51670	3.4450	3.52620	3.4646	3B
			3.6032	3.6258	3.51645	3.5808	3.6258	3.50965	3.51695	3.4442	3.52595	3.4638	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3⅝-8 or 3.625-8	UN	2A	3.6052	3.6223	3.54110	3.5863	3.6223	3.53220	3.54380	3.4900	3.55540	3.5150	2B
			3.6045	3.6230	3.54085	3.5856	3.6230	3.53245	3.54405	3.4893	3.55515	3.5143	
		3A	3.6079	3.6250	3.54380	3.5912	3.6250	3.53710	3.54380	3.4900	3.55250	3.5047	3B
			3.6072	3.6257	3.54355	3.5905	3.6257	3.53735	3.54405	3.4893	3.55225	3.5040	
3⅝-12 or 3.625-12	UN	2A	3.6102	3.6231	3.56900	3.5987	3.6231	3.56260	3.57090	3.5350	3.57930	3.5530	2B
			3.6096	3.6237	3.56875	3.5981	3.6237	3.56285	3.57115	3.5344	3.57905	3.5524	
		3A	3.6121	3.6250	3.57090	3.6022	3.6250	3.56610	3.57090	3.5350	3.57720	3.5448	3B
			3.6115	3.6256	3.57065	3.6016	3.6256	3.56635	3.57115	3.5344	3.57695	3.5442	
3⅝-16 or 3.625-16	UN	2A	3.6128	3.6233	3.58270	3.6040	3.6233	3.57690	3.58440	3.5570	3.59190	3.5710	2B
			3.6122	3.6239	3.58245	3.6034	3.6239	3.57715	3.58465	3.5564	3.59165	3.5704	
		3A	3.6145	3.6250	3.58440	3.6072	3.6250	3.58010	3.58440	3.5570	3.59000	3.5658	3B
			3.6139	3.6256	3.58415	3.6066	3.6256	3.58035	3.58465	3.5564	3.58975	3.5652	
3¾-4 or 3.750-4	UNC	1A	3.7185	3.7466	3.58420	3.6757	3.7466	3.56740	3.58760	3.4790	3.60940	3.5170	1B
			3.7176	3.7475	3.58395	3.6748	3.7475	3.56765	3.58785	3.4781	3.60915	3.5161	
		2A	3.7185	3.7466	3.58420	3.6813	3.7466	3.57300	3.58760	3.4790	3.60210	3.5170	2B
			3.7176	3.7475	3.58395	3.6804	3.7475	3.57325	3.58785	3.4781	3.60185	3.5161	
		3A	3.7219	3.7500	3.58760	3.6875	3.7500	3.57920	3.58760	3.4790	3.59850	3.5094	3B
			3.7210	3.7509	3.58735	3.6866	3.7509	3.57945	3.58785	3.4781	3.59825	3.5085	
3¾-6 or 3.750-6	UN	2A	3.7261	3.7471	3.63880	3.7012	3.7471	3.62900	3.64170	3.5700	3.65440	3.6000	2B
			3.7253	3.7479	3.63855	3.7004	3.7479	3.62925	3.64195	3.5692	3.65415	3.5992	
		3A	3.7290	3.7500	3.64170	3.7066	3.7500	3.63440	3.64170	3.5700	3.65120	3.5896	3B
			3.7282	3.7508	3.64145	3.7058	3.7508	3.63465	3.64195	3.5692	3.65095	3.5888	
3¾-8 or 3.750-8	UN	2A	3.7302	3.7473	3.66610	3.7112	3.7473	3.65710	3.66880	3.6150	3.68050	3.6400	2B
			3.7295	3.7480	3.66585	3.7105	3.7480	3.65735	3.66905	3.6143	3.68025	3.6393	
		3A	3.7329	3.7500	3.66880	3.7162	3.7500	3.66210	3.66880	3.6150	3.67760	3.6297	3B
			3.7322	3.7507	3.66855	3.7155	3.7507	3.66235	3.66905	3.6143	3.67735	3.6290	
3¾-12 or 3.750-12	UN	2A	3.7352	3.7481	3.69400	3.7237	3.7481	3.68760	3.69590	3.6600	3.70430	3.6780	2B
			3.7346	3.7487	3.69375	3.7231	3.7487	3.68785	3.69615	3.6594	3.70405	3.6774	
		3A	3.7371	3.7500	3.69590	3.7272	3.7500	3.69110	3.69590	3.6600	3.70220	3.6698	3B
			3.7365	3.7506	3.69565	3.7266	3.7506	3.69135	3.69615	3.6594	3.70195	3.6692	
3¾-16 or 3.750-16	UN	2A	3.7378	3.7483	3.70770	3.7290	3.7483	3.70190	3.70940	3.6820	3.71690	3.6960	2B
			3.7372	3.7489	3.70745	3.7284	3.7489	3.70215	3.70965	3.6814	3.71665	3.6954	
		3A	3.7395	3.7500	3.70940	3.7322	3.7500	3.70510	3.70940	3.6820	3.71500	3.6908	3B
			3.7389	3.7506	3.70915	3.7316	3.7506	3.70535	3.70965	3.6814	3.71475	3.6902	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
3⅞-6 or 3.875-6	UN	2A	3.8510	3.8720	3.76370	3.8260	3.8720	3.75380	3.76670	3.6950	3.77950	3.7250	2B
			3.8502	3.8728	3.76345	3.8252	3.8728	3.75405	3.76695	3.6942	3.77925	3.7242	
		3A	3.8540	3.8750	3.76670	3.8315	3.8750	3.75930	3.76670	3.6950	3.77630	3.7146	3B
			3.8532	3.8758	3.76645	3.8307	3.8758	3.75955	3.76695	3.6942	3.77605	3.7138	
3⅞-8 or 3.875-8	UN	2A	3.8552	3.8723	3.79110	3.8361	3.8723	3.78200	3.79380	3.7400	3.80560	3.7650	2B
			3.8545	3.8730	3.79085	3.8354	3.8730	3.78225	3.79405	3.7393	3.80535	3.7643	
		3A	3.8579	3.8750	3.79380	3.8411	3.8750	3.78700	3.79380	3.7400	3.80260	3.7547	3B
			3.8572	3.8757	3.79355	3.8404	3.8757	3.78725	3.79405	3.7393	3.80235	3.7540	
3⅞-12 or 3.875-12	UN	2A	3.8601	3.8730	3.81890	3.8485	3.8730	3.81240	3.82090	3.7850	3.82940	3.8030	2B
			3.8595	3.8736	3.81865	3.8479	3.8736	3.81265	3.82115	3.7844	3.82915	3.8024	
		3A	3.8621	3.8750	3.82090	3.8521	3.8750	3.81600	3.82090	3.7850	3.82730	3.7948	3B
			3.8615	3.8756	3.82065	3.8515	3.8756	3.81625	3.82115	3.7844	3.82705	3.7942	
3⅞-16 or 3.875-16	UN	2A	3.8627	3.8732	3.83260	3.8538	3.8732	3.82670	3.83440	3.8070	3.84200	3.8210	2B
			3.8621	3.8738	3.83235	3.8532	3.8738	3.82695	3.83465	3.8064	3.84175	3.8204	
		3A	3.8645	3.8750	3.83440	3.8571	3.8750	3.83000	3.83440	3.8070	3.84010	3.8158	3B
			3.8639	3.8756	3.83415	3.8565	3.8756	3.83025	3.83465	3.8064	3.83985	3.8152	
4-4 or 4.000-4	UNC	1A	3.9685	3.9966	3.83420	3.9255	3.9966	3.81720	3.83760	3.7290	3.85970	3.7670	1B
			3.9676	3.9975	3.83395	3.9246	3.9975	3.81745	3.83785	3.7281	3.85945	3.7661	
		2A	3.9685	3.9966	3.83420	3.9312	3.9966	3.82290	3.83760	3.7290	3.85230	3.7670	2B
			3.9676	3.9975	3.83395	3.9303	3.9975	3.82315	3.83785	3.7281	3.85205	3.7661	
		3A	3.9719	4.0000	3.83760	3.9374	4.0000	3.82910	3.83760	3.7290	3.84870	3.7594	3B
			3.9710	4.0009	3.83735	3.9365	4.0009	3.82935	3.83785	3.7281	3.84845	3.7585	
4-6 or 4.000-6	UN	2A	3.9760	3.9970	3.88870	3.9510	3.9970	3.87880	3.89170	3.8200	3.90460	3.8500	2B
			3.9752	3.9978	3.88845	3.9502	3.9978	3.87905	3.89195	3.8192	3.90435	3.8492	
		3A	3.9790	4.0000	3.89170	3.9565	4.0000	3.88430	3.89170	3.8200	3.90140	3.8396	3B
			3.9782	4.0008	3.89145	3.9557	4.0008	3.88455	3.89195	3.8192	3.90115	3.8388	
4-8 or 4.000-8	UN	2A	3.9802	3.9973	3.91610	3.9611	3.9973	3.90700	3.91880	3.8650	3.93070	3.8900	2B
			3.9795	3.9980	3.91585	3.9604	3.9980	3.90725	3.91905	3.8643	3.93045	3.8893	
		3A	3.9829	4.0000	3.91880	3.9661	4.0000	3.91200	3.91880	3.8650	3.92770	3.8797	3B
			3.9822	4.0007	3.91855	3.9654	4.0007	3.91225	3.91905	3.8643	3.92745	3.8790	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4-12 or 4.000-12	UN	2A	3.9851	3.9980	3.94390	3.9735	3.9980	3.93740	3.94590	3.9100	3.95440	3.9280	2B
			3.9845	3.9986	3.94365	3.9729	3.9986	3.93765	3.94615	3.9094	3.95415	3.9274	
		3A	3.9871	4.0000	3.94590	3.9771	4.0000	3.94100	3.94590	3.9100	3.95230	3.9198	3B
			3.9865	4.0006	3.94565	3.9765	4.0006	3.94125	3.94615	3.9094	3.95205	3.9192	
4-16 or 4.000-16	UN	2A	3.9877	3.9982	3.95760	3.9788	3.9982	3.95170	3.95940	3.9320	3.96700	3.9460	2B
			3.9871	3.9988	3.95735	3.9782	3.9988	3.95195	3.95965	3.9314	3.96675	3.9454	
		3A	3.9895	4.0000	3.95940	3.9821	4.0000	3.95500	3.95940	3.9320	3.96510	3.9408	3B
			3.9889	4.0006	3.95915	3.9815	4.0006	3.95525	3.95965	3.9314	3.96485	3.9402	
4⅛-6 or 4.125-6	UN	2A	4.1010	4.1220	4.0137	4.0759	4.1220	4.0037	4.0167	3.9450	4.0297	3.9750	2B
			4.0997	4.1233	4.0134	4.0746	4.1233	4.0040	4.0170	3.9437	4.0294	3.9737	
		3A	4.1040	4.1250	4.0167	4.0814	4.1250	4.0092	4.0167	3.9450	4.0264	3.9646	3B
			4.1027	4.1263	4.0164	4.0801	4.1263	4.0095	4.0170	3.9437	4.0261	3.9633	
4⅛-12 or 4.125-12	UN	2A	4.1101	4.1230	4.0689	4.0985	4.1230	4.0624	4.0709	4.0350	4.0794	4.0530	2B
			4.1092	4.1239	4.0686	4.0976	4.1239	4.0627	4.0712	4.0341	4.0791	4.0521	
		3A	4.1121	4.1250	4.0709	4.1021	4.1250	4.0660	4.0709	4.0350	4.0773	4.0448	3B
			4.1112	4.1259	4.0706	4.1012	4.1259	4.0663	4.0712	4.0341	4.0770	4.0439	
4⅛-16 or 4.125-16	UN	2A	4.1127	4.1232	4.0826	4.1038	4.1232	4.0767	4.0844	4.0570	4.0920	4.0710	2B
			4.1118	4.1241	4.0823	4.1029	4.1241	4.0770	4.0847	4.0561	4.0917	4.0701	
		3A	4.1145	4.1250	4.0844	4.1071	4.1250	4.0800	4.0844	4.0570	4.0901	4.0658	3B
			4.1136	4.1259	4.0841	4.1062	4.1259	4.0803	4.0847	4.0561	4.0898	4.0649	
4¼-4 or 4.250-4	UN	2A	4.2185	4.2466	4.0842	4.1810	4.2466	4.0727	4.0876	3.9790	4.1025	4.0170	2B
			4.2170	4.2481	4.0839	4.1795	4.2481	4.0730	4.0879	3.9775	4.1022	4.0155	
		3A	4.2219	4.2500	4.0876	4.1873	4.2500	4.0790	4.0876	3.9790	4.0988	4.0094	3B
			4.2204	4.2515	4.0873	4.1858	4.2515	4.0793	4.0879	3.9775	4.0985	4.0079	
4¼-6 or 4.250-6	UN	2A	4.2260	4.2470	4.1387	4.2008	4.2470	4.1286	4.1417	4.0700	4.1548	4.1000	2B
			4.2247	4.2483	4.1384	4.1995	4.2483	4.1289	4.1420	4.0687	4.1545	4.0987	
		3A	4.2290	4.2500	4.1417	4.2064	4.2500	4.1342	4.1417	4.0700	4.1515	4.0896	3B
			4.2277	4.2513	4.1414	4.2051	4.2513	4.1345	4.1420	4.0687	4.1512	4.0883	
4¼-12 or 4.250-12	UN	2A	4.2351	4.2480	4.1939	4.2235	4.2480	4.1874	4.1959	4.1600	4.2044	4.1780	2B
			4.2342	4.2489	4.1936	4.2226	4.2489	4.1877	4.1962	4.1591	4.2041	4.1771	
		3A	4.2371	4.2500	4.1959	4.2271	4.2500	4.1910	4.1959	4.1600	4.2023	4.1698	3B
			4.2362	4.2509	4.1956	4.2262	4.2509	4.1913	4.1962	4.1591	4.2020	4.1689	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4¼-16 or 4.250-16	UN	2A	4.2377	4.2482	4.2076	4.2288	4.2482	4.2017	4.2094	4.1820	4.2170	4.1960	2B
			4.2368	4.2491	4.2073	4.2279	4.2491	4.2020	4.2097	4.1811	4.2167	4.1951	
		3A	4.2395	4.2500	4.2094	4.2321	4.2500	4.2050	4.2094	4.1820	4.2151	4.1908	3B
			4.2386	4.2509	4.2091	4.2312	4.2509	4.2053	4.2097	4.1811	4.2148	4.1899	
4⅜-6 or 4.375-6	UN	2A	4.3510	4.3720	4.2637	4.3258	4.3720	4.2536	4.2667	4.1950	4.2799	4.2250	2B
			4.3497	4.3733	4.2634	4.3245	4.3733	4.2539	4.2670	4.1937	4.2796	4.2237	
		3A	4.3540	4.3750	4.2667	4.3313	4.3750	4.2591	4.2667	4.1950	4.2766	4.2146	3B
			4.3527	4.3763	4.2664	4.3300	4.3763	4.2594	4.2670	4.1937	4.2763	4.2133	
4⅜-12 or 4.375-12	UN	2A	4.3601	4.3730	4.3189	4.3485	4.3730	4.3124	4.3209	4.2850	4.3294	4.3030	2B
			4.3592	4.3739	4.3186	4.3476	4.3739	4.3127	4.3212	4.2841	4.3291	4.3021	
		3A	4.3621	4.3750	4.3209	4.3521	4.3750	4.3160	4.3209	4.2850	4.3273	4.2948	3B
			4.3612	4.3759	4.3206	4.3512	4.3759	4.3163	4.3212	4.2841	4.3270	4.2939	
4⅜-16 or 4.375-16	UN	2A	4.3627	4.3732	4.3326	4.3538	4.3732	4.3267	4.3344	4.3070	4.3420	4.3210	2B
			4.3618	4.3741	4.3323	4.3529	4.3741	4.3270	4.3347	4.3061	4.3417	4.3201	
		3A	4.3645	4.3750	4.3344	4.3571	4.3750	4.3300	4.3344	4.3070	4.3401	4.3158	3B
			4.3636	4.3759	4.3341	4.3562	4.3759	4.3303	4.3347	4.3061	4.3398	4.3149	
4½-4 or 4.500-4	UN	2A	4.4684	4.4965	4.3341	4.4308	4.4965	4.3225	4.3376	4.2290	4.3527	4.2670	2B
			4.4669	4.4980	4.3338	4.4293	4.4980	4.3228	4.3379	4.2275	4.3524	4.2655	
		3A	4.4719	4.5000	4.3376	4.4372	4.5000	4.3289	4.3376	4.2290	4.3489	4.2594	3B
			4.4704	4.5015	4.3373	4.4357	4.5015	4.3292	4.3379	4.2275	4.3486	4.2579	
4½-6 or 4.500-6	UN	2A	4.4759	4.4969	4.3886	4.4506	4.4969	4.3784	4.3917	4.3200	4.4050	4.3500	2B
			4.4746	4.4982	4.3883	4.4493	4.4982	4.3787	4.3920	4.3187	4.4047	4.3487	
		3A	4.4790	4.5000	4.3917	4.4562	4.5000	4.3840	4.3917	4.3200	4.4016	4.3396	3B
			4.4777	4.5013	4.3914	4.4549	4.5013	4.3843	4.3920	4.3187	4.4013	4.3383	
4½-12 or 4.500-12	UN	2A	4.4851	4.4980	4.4439	4.4735	4.4980	4.4374	4.4459	4.4100	4.4544	4.4280	2B
			4.4842	4.4989	4.4436	4.4726	4.4989	4.4377	4.4462	4.4091	4.4541	4.4271	
		3A	4.4871	4.5000	4.4459	4.4771	4.5000	4.4410	4.4459	4.4100	4.4523	4.4198	3B
			4.4862	4.5009	4.4456	4.4762	4.5009	4.4413	4.4462	4.4091	4.4520	4.4189	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4½-16 or 4.500-16	UN	2A	4.4877	4.4982	4.4576	4.4788	4.4982	4.4517	4.4594	4.4320	4.4670	4.4460	2B
			4.4868	4.4991	4.4573	4.4779	4.4991	4.4520	4.4597	4.4311	4.4667	4.4451	
		3A	4.4895	4.5000	4.4594	4.4821	4.5000	4.4550	4.4594	4.4320	4.4651	4.4408	3B
			4.4886	4.5009	4.4591	4.4812	4.5009	4.4553	4.4597	4.4311	4.4648	4.4399	
4⅝-6 or 4.625-6	UN	2A	4.6009	4.6219	4.5136	4.5755	4.6219	4.5033	4.5167	4.4450	4.5300	4.4750	2B
			4.5996	4.6232	4.5133	4.5742	4.6232	4.5036	4.5170	4.4437	4.5297	4.4737	
		3A	4.6040	4.6250	4.5167	4.5812	4.6250	4.5090	4.5167	4.4450	4.5267	4.4646	3B
			4.6027	4.6263	4.5164	4.5799	4.6263	4.5093	4.5170	4.4437	4.5264	4.4633	
4⅝-12 or 4.625-12	UN	2A	4.6101	4.6230	4.5689	4.5983	4.6230	4.5622	4.5709	4.5350	4.5796	4.5530	2B
			4.6092	4.6239	4.5686	4.5974	4.6239	4.5625	4.5712	4.5341	4.5793	4.5521	
		3A	4.6121	4.6250	4.5709	4.6020	4.6250	4.5659	4.5709	4.5350	4.5775	4.5448	3B
			4.6112	4.6259	4.5706	4.6011	4.6259	4.5662	4.5712	4.5341	4.5772	4.5439	
4⅝-16 or 4.625-16	UN	2A	4.6127	4.6232	4.5826	4.6036	4.6232	4.5765	4.5844	4.5570	4.5923	4.5710	2B
			4.6118	4.6241	4.5823	4.6027	4.6241	4.5768	4.5847	4.5561	4.5920	4.5701	
		3A	4.6145	4.6250	4.5844	4.6070	4.6250	4.5799	4.5844	4.5570	4.5903	4.5658	3B
			4.6136	4.6259	4.5841	4.6061	4.6259	4.5802	4.5847	4.5561	4.5900	4.5649	
4¾-4 or 4.750-4	UN	2A	4.7184	4.7465	4.5841	4.6807	4.7465	4.5724	4.5876	4.4790	4.6029	4.5170	2B
			4.7169	4.7480	4.5838	4.6792	4.7480	4.5727	4.5879	4.4775	4.6026	4.5155	
		3A	4.7219	4.7500	4.5876	4.6871	4.7500	4.5788	4.5876	4.4790	4.5990	4.5094	3B
			4.7204	4.7515	4.5873	4.6856	4.7515	4.5791	4.5879	4.4775	4.5987	4.5079	
4¾-6 or 4.750-6	UN	2A	4.7259	4.7469	4.6386	4.7005	4.7469	4.6283	4.6417	4.5700	4.6551	4.6000	2B
			4.7246	4.7482	4.6383	4.6992	4.7482	4.6286	4.6420	4.5687	4.6548	4.5987	
		3A	4.7290	4.7500	4.6417	4.7062	4.7500	4.6340	4.6417	4.5700	4.6518	4.5896	3B
			4.7277	4.7513	4.6414	4.7049	4.7513	4.6343	4.6420	4.5687	4.6515	4.5883	
4¾-12 or 4.750-12	UN	2A	4.7351	4.7480	4.6939	4.7233	4.7480	4.6872	4.6959	4.6600	4.7046	4.6780	2B
			4.7342	4.7489	4.6936	4.7224	4.7489	4.6875	4.6962	4.6591	4.7043	4.6771	
		3A	4.7371	4.7500	4.6959	4.7270	4.7500	4.6909	4.6959	4.6600	4.7025	4.6698	3B
			4.7362	4.7509	4.6956	4.7261	4.7509	4.6912	4.6962	4.6591	4.7022	4.6689	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4¾-16 or 4.750-16	UN	2A	4.7377	4.7482	4.7076	4.7286	4.7482	4.7015	4.7094	4.6820	4.7173	4.6960	2B
			4.7368	4.7491	4.7073	4.7277	4.7491	4.7018	4.7097	4.6811	4.7170	4.6951	
		3A	4.7395	4.7500	4.7094	4.7320	4.7500	4.7049	4.7094	4.6820	4.7153	4.6908	3B
			4.7386	4.7509	4.7091	4.7311	4.7509	4.7052	4.7097	4.6811	4.7150	4.6899	
4⅞-6 or 4.875-6	UN	2A	4.8509	4.8719	4.7636	4.8254	4.8719	4.7532	4.7667	4.6950	4.7802	4.7250	2B
			4.8496	4.8732	4.7633	4.8241	4.8732	4.7535	4.7670	4.6937	4.7799	4.7237	
		3A	4.8540	4.8750	4.7667	4.8311	4.8750	4.7589	4.7667	4.6950	4.7768	4.7146	3B
			4.8527	4.8763	4.7664	4.8298	4.8763	4.7592	4.7670	4.6937	4.7765	4.7133	
4⅞-12 or 4.875-12	UN	2A	4.8601	4.8730	4.8189	4.8483	4.8730	4.8122	4.8209	4.7850	4.8296	4.8030	2B
			4.8592	4.8739	4.8186	4.8474	4.8739	4.8125	4.8212	4.7841	4.8293	4.8021	
		3A	4.8621	4.8750	4.8209	4.8520	4.8750	4.8159	4.8209	4.7850	4.8275	4.7948	3B
			4.8612	4.8759	4.8206	4.8511	4.8759	4.8162	4.8212	4.7841	4.8272	4.7939	
4⅞-16 or 4.875-16	UN	2A	4.8627	4.8732	4.8326	4.8536	4.8732	4.8265	4.8344	4.8070	4.8423	4.8210	2B
			4.8618	4.8741	4.8323	4.8527	4.8741	4.8268	4.8347	4.8061	4.8420	4.8201	
		3A	4.8645	4.8750	4.8344	4.8570	4.8750	4.8299	4.8344	4.8070	4.8403	4.8158	3B
			4.8636	4.8759	4.8341	4.8561	4.8759	4.8302	4.8347	4.8061	4.8400	4.8149	
5-4 or 5.000-4	UN	2A	4.9683	4.9964	4.8340	4.9304	4.9964	4.8221	4.8376	4.7290	4.8530	4.7670	2B
			4.9668	4.9979	4.8337	4.9289	4.9979	4.8224	4.8379	4.7275	4.8527	4.7655	
		3A	4.9719	5.0000	4.8376	4.9370	5.0000	4.8287	4.8376	4.7290	4.8492	4.7594	3B
			4.9704	5.0015	4.8373	4.9355	5.0015	4.8290	4.8379	4.7275	4.8489	4.7579	
5-6 or 5.000-6	UN	2A	4.9759	4.9969	4.8886	4.9503	4.9969	4.8781	4.8917	4.8200	4.9053	4.8500	2B
			4.9746	4.9982	4.8883	4.9490	4.9982	4.8784	4.8920	4.8187	4.9050	4.8487	
		3A	4.9790	5.0000	4.8917	4.9561	5.0000	4.8839	4.8917	4.8200	4.9019	4.8396	3B
			4.9777	5.0013	4.8914	4.9548	5.0013	4.8842	4.8920	4.8187	4.9016	4.8383	
5-12 or 5.000-12	UN	2A	4.9851	4.9980	4.9439	4.9733	4.9980	4.9372	4.9459	4.9100	4.9546	4.9280	2B
			4.9842	4.9989	4.9436	4.9724	4.9989	4.9375	4.9462	4.9091	4.9543	4.9271	
		3A	4.9871	5.0000	4.9459	4.9770	5.0000	4.9409	4.9459	4.9100	4.9525	4.9198	3B
			4.9862	5.0009	4.9456	4.9761	5.0009	4.9412	4.9462	4.9091	4.9522	4.9189	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5-16 or 5.000-16	UN	2A	4.9877	4.9982	4.9576	4.9786	4.9982	4.9515	4.9594	4.9320	4.9673	4.9460	2B
			4.9868	4.9991	4.9573	4.9777	4.9991	4.9518	4.9597	4.9311	4.9670	4.9451	
		3A	4.9895	5.0000	4.9594	4.9820	5.0000	4.9549	4.9594	4.9320	4.9653	4.9408	3B
			4.9886	5.0009	4.9591	4.9811	5.0009	4.9552	4.9597	4.9311	4.9650	4.9399	
5⅛-6 or 5.125-6	UN	2A	5.1008	5.1218	5.0135	5.0752	5.1218	5.0030	5.0167	4.9450	5.0304	4.9750	2B
			5.0995	5.1231	5.0132	5.0739	5.1231	5.0033	5.0170	4.9437	5.0301	4.9737	
		3A	5.1040	5.1250	5.0167	5.0810	5.1250	5.0088	5.0167	4.9450	5.0270	4.9646	3B
			5.1027	5.1263	5.0164	5.0797	5.1263	5.0091	5.0170	4.9437	5.0267	4.9633	
5⅛-12 or 5.125-12	UN	2A	5.1101	5.1230	5.0689	5.0983	5.1230	5.0622	5.0709	5.0350	5.0796	5.0530	2B
			5.1092	5.1239	5.0686	5.0974	5.1239	5.0625	5.0712	5.0341	5.0793	5.0521	
		3A	5.1121	5.1250	5.0709	5.1020	5.1250	5.0659	5.0709	5.0350	5.0775	5.0448	3B
			5.1112	5.1259	5.0706	5.1011	5.1259	5.0662	5.0712	5.0341	5.0772	5.0439	
5⅛-16 or 5.125-16	UN	2A	5.1127	5.1232	5.0826	5.1036	5.1232	5.0765	5.0844	5.0570	5.0923	5.0710	2B
			5.1118	5.1241	5.0823	5.1027	5.1241	5.0768	5.0847	5.0561	5.0920	5.0701	
		3A	5.1145	5.1250	5.0844	5.1070	5.1250	5.0799	5.0844	5.0570	5.0903	5.0658	3B
			5.1136	5.1259	5.0841	5.1061	5.1259	5.0802	5.0847	5.0561	5.0900	5.0649	
5¼-4 or 5.250-4	UN	2A	5.2183	5.2464	5.0840	5.1803	5.2464	5.0720	5.0876	4.9790	5.1032	5.0170	2B
			5.2168	5.2479	5.0837	5.1788	5.2479	5.0723	5.0879	4.9775	5.1029	5.0155	
		3A	5.2219	5.2500	5.0876	5.1869	5.2500	5.0786	5.0876	4.9790	5.0993	5.0094	3B
			5.2204	5.2515	5.0873	5.1854	5.2515	5.0789	5.0879	4.9775	5.0990	5.0079	
5¼-6 or 5.250-6	UN	2A	5.2258	5.2468	5.1385	5.2001	5.2468	5.1279	5.1417	5.0700	5.1555	5.1000	2B
			5.2245	5.2481	5.1382	5.1988	5.2481	5.1282	5.1420	5.0687	5.1552	5.0987	
		3A	5.2290	5.2500	5.1417	5.2060	5.2500	5.1338	5.1417	5.0700	5.1520	5.0896	3B
			5.2277	5.2513	5.1414	5.2047	5.2513	5.1341	5.1420	5.0687	5.1517	5.0883	
5¼-12 or 5.250-12	UN	2A	5.2351	5.2480	5.1939	5.2233	5.2480	5.1872	5.1959	5.1600	5.2046	5.1780	2B
			5.2342	5.2489	5.1936	5.2224	5.2489	5.1875	5.1962	5.1591	5.2043	5.1771	
		3A	5.2371	5.2500	5.1959	5.2270	5.2500	5.1909	5.1959	5.1600	5.2025	5.1698	3B
			5.2362	5.2509	5.1956	5.2261	5.2509	5.1912	5.1962	5.1591	5.2022	5.1689	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5¼-16 or 5.250-16	UN	2A	5.2377	5.2482	5.2076	5.2286	5.2482	5.2015	5.2094	5.1820	5.2173	5.1960	2B
			5.2368	5.2491	5.2073	5.2277	5.2491	5.2018	5.2097	5.1811	5.2170	5.1951	
		3A	5.2395	5.2500	5.2094	5.2320	5.2500	5.2049	5.2094	5.1820	5.2153	5.1908	3B
			5.2386	5.2509	5.2091	5.2311	5.2509	5.2052	5.2097	5.1811	5.2150	5.1899	
5⅜-6 or 5.375-6	UN	2A	5.3508	5.3718	5.2635	5.3251	5.3718	5.2529	5.2667	5.1950	5.2805	5.2250	2B
			5.3495	5.3731	5.2632	5.3238	5.3731	5.2532	5.2670	5.1937	5.2802	5.2237	
		3A	5.3540	5.3750	5.2667	5.3309	5.3750	5.2587	5.2667	5.1950	5.2771	5.2146	3B
			5.3527	5.3763	5.2664	5.3296	5.3763	5.2590	5.2670	5.1937	5.2768	5.2133	
5⅜-12 or 5.375-12	UN	2A	5.3601	5.3730	5.3189	5.3483	5.3730	5.3122	5.3209	5.2850	5.3296	5.3030	2B
			5.3592	5.3739	5.3186	5.3474	5.3739	5.3125	5.3212	5.2841	5.3293	5.3021	
		3A	5.3621	5.3750	5.3209	5.3520	5.3750	5.3159	5.3209	5.2850	5.3275	5.2948	3B
			5.3612	5.3759	5.3206	5.3511	5.3759	5.3162	5.3212	5.2841	5.3272	5.2939	
5⅜-16 or 5.375-16	UN	2A	5.3627	5.3732	5.3326	5.3536	5.3732	5.3265	5.3344	5.3070	5.3423	5.3210	2B
			5.3618	5.3741	5.3323	5.3527	5.3741	5.3268	5.3347	5.3061	5.3420	5.3201	
		3A	5.3645	5.3750	5.3344	5.3570	5.3750	5.3299	5.3344	5.3070	5.3403	5.3158	3B
			5.3636	5.3759	5.3341	5.3561	5.3759	5.3302	5.3347	5.3061	5.3400	5.3149	
5½-4 or 5.500-4	UN	2A	5.4683	5.4964	5.3340	5.4302	5.4964	5.3219	5.3376	5.2290	5.3534	5.2670	2B
			5.4668	5.4979	5.3337	5.4287	5.4979	5.3222	5.3379	5.2275	5.3531	5.2655	
		3A	5.4719	5.5000	5.3376	5.4368	5.5000	5.3285	5.3376	5.2290	5.3494	5.2594	3B
			5.4704	5.5015	5.3373	5.4353	5.5015	5.3288	5.3379	5.2275	5.3491	5.2579	
5½-6 or 5.500-6	UN	2A	5.4758	5.4968	5.3885	5.4500	5.4968	5.3778	5.3917	5.3200	5.4056	5.3500	2B
			5.4745	5.4981	5.3882	5.4487	5.4981	5.3781	5.3920	5.3187	5.4053	5.3487	
		3A	5.4790	5.5000	5.3917	5.4559	5.5000	5.3837	5.3917	5.3200	5.4021	5.3396	3B
			5.4777	5.5013	5.3914	5.4546	5.5013	5.3840	5.3920	5.3187	5.4018	5.3383	
5½-12 or 5.500-12	UN	2A	5.4851	5.4980	5.4439	5.4733	5.4980	5.4372	5.4459	5.4100	5.4546	5.4280	2B
			5.4842	5.4989	5.4436	5.4724	5.4989	5.4375	5.4462	5.4091	5.4543	5.4271	
		3A	5.4871	5.5000	5.4459	5.4770	5.5000	5.4409	5.4459	5.4100	5.4525	5.4198	3B
			5.4862	5.5009	5.4456	5.4761	5.5009	5.4412	5.4462	5.4091	5.4522	5.4189	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5½-16 or 5.500-16	UN	2A	5.4877	5.4982	5.4576	5.4786	5.4982	5.4515	5.4594	5.4320	5.4673	5.4460	2B
			5.4868	5.4991	5.4573	5.4777	5.4991	5.4518	5.4597	5.4311	5.4670	5.4451	
		3A	5.4895	5.5000	5.4594	5.4820	5.5000	5.4549	5.4594	5.4320	5.4653	5.4408	3B
			5.4886	5.5009	5.4591	5.4811	5.5009	5.4552	5.4597	5.4311	5.4650	5.4399	
5⅝-6 or 5.625-6	UN	2A	5.6008	5.6218	5.5135	5.5749	5.6218	5.5027	5.5167	5.4450	5.5307	5.4750	2B
			5.5995	5.6231	5.5132	5.5736	5.6231	5.5030	5.5170	5.4437	5.5304	5.4737	
		3A	5.6040	5.6250	5.5167	5.5808	5.6250	5.5086	5.5167	5.4450	5.5272	5.4646	3B
			5.6027	5.6263	5.5164	5.5795	5.6263	5.5089	5.5170	5.4437	5.5269	5.4633	
5⅝-12 or 5.625-12	UN	2A	5.6100	5.6229	5.5688	5.5980	5.6229	5.5619	5.5709	5.5350	5.5799	5.5530	2B
			5.6091	5.6238	5.5685	5.5971	5.6238	5.5622	5.5712	5.5341	5.5796	5.5521	
		3A	5.6121	5.6250	5.5709	5.6018	5.6250	5.5657	5.5709	5.5350	5.5776	5.5448	3B
			5.6112	5.6259	5.5706	5.6009	5.6259	5.5660	5.5712	5.5341	5.5773	5.5439	
5⅝-16 or 5.625-16	UN	2A	5.6126	5.6231	5.5825	5.6034	5.6231	5.5763	5.5844	5.5570	5.5925	5.5710	2B
			5.6117	5.6240	5.5822	5.6025	5.6240	5.5766	5.5847	5.5561	5.5922	5.5701	
		3A	5.6145	5.6250	5.5844	5.6068	5.6250	5.5797	5.5844	5.5570	5.5905	5.5658	3B
			5.6136	5.6259	5.5841	5.6059	5.6259	5.5800	5.5847	5.5561	5.5902	5.5649	
5¾-4 or 5.750-4	UN	2A	5.7182	5.7463	5.5839	5.6800	5.7463	5.5717	5.5876	5.4790	5.6035	5.5170	2B
			5.7167	5.7478	5.5836	5.6785	5.7478	5.5720	5.5879	5.4775	5.6032	5.5155	
		3A	5.7219	5.7500	5.5876	5.6867	5.7500	5.5784	5.5876	5.4790	5.5995	5.5094	3B
			5.7204	5.7515	5.5873	5.6852	5.7515	5.5787	5.5879	5.4775	5.5992	5.5079	
5¾-6 or 5.750-6	UN	2A	5.7258	5.7468	5.6385	5.6999	5.7468	5.6277	5.6417	5.5700	5.6558	5.6000	2B
			5.7245	5.7481	5.6382	5.6986	5.7481	5.6280	5.6420	5.5687	5.6555	5.5987	
		3A	5.7290	5.7500	5.6417	5.7058	5.7500	5.6336	5.6417	5.5700	5.6523	5.5896	3B
			5.7277	5.7513	5.6414	5.7045	5.7513	5.6339	5.6420	5.5687	5.6520	5.5883	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5¾-12 or 5.750-12	UN	2A	5.7350	5.7479	5.6938	5.7230	5.7479	5.6869	5.6959	5.6600	5.7049	5.6780	2B
			5.7341	5.7488	5.6935	5.7221	5.7488	5.6872	5.6962	5.6591	5.7046	5.6771	
		3A	5.7371	5.7500	5.6959	5.7268	5.7500	5.6907	5.6959	5.6600	5.7026	5.6698	3B
			5.7362	5.7509	5.6956	5.7259	5.7509	5.6910	5.6962	5.6591	5.7023	5.6689	
5¾-16 or 5.750-16	UN	2A	5.7376	5.7481	5.7075	5.7284	5.7481	5.7013	5.7094	5.6820	5.7175	5.6960	2B
			5.7367	5.7490	5.7072	5.7275	5.7490	5.7016	5.7097	5.6811	5.7172	5.6951	
		3A	5.7395	5.7500	5.7094	5.7318	5.7500	5.7047	5.7094	5.6820	5.7155	5.6908	3B
			5.7386	5.7509	5.7091	5.7309	5.7509	5.7050	5.7097	5.6811	5.7152	5.6899	
5⅞-6 or 5.875-6	UN	2A	5.8507	5.8717	5.7634	5.8247	5.8717	5.7525	5.7667	5.6950	5.7809	5.7250	2B
			5.8494	5.8730	5.7631	5.8234	5.8730	5.7528	5.7670	5.6937	5.7806	5.7237	
		3A	5.8540	5.8750	5.7667	5.8307	5.8750	5.7585	5.7667	5.6950	5.7773	5.7146	3B
			5.8527	5.8763	5.7664	5.8294	5.8763	5.7588	5.7670	5.6937	5.7770	5.7133	
5⅞-12 or 5.875-12	UN	2A	5.8600	5.8729	5.8188	5.8480	5.8729	5.8119	5.8209	5.7850	5.8299	5.8030	2B
			5.8591	5.8738	5.8185	5.8471	5.8738	5.8122	5.8212	5.7841	5.8296	5.8021	
		3A	5.8621	5.8750	5.8209	5.8518	5.8750	5.8157	5.8209	5.7850	5.8276	5.7948	3B
			5.8612	5.8759	5.8206	5.8509	5.8759	5.8160	5.8212	5.7841	5.8273	5.7939	
5⅞-16 or 5.875-16	UN	2A	5.8626	5.8731	5.8325	5.8534	5.8731	5.8263	5.8344	5.8070	5.8425	5.8210	2B
			5.8617	5.8740	5.8322	5.8525	5.8740	5.8266	5.8347	5.8061	5.8422	5.8201	
		3A	5.8645	5.8750	5.8344	5.8568	5.8750	5.8297	5.8344	5.8070	5.8405	5.8158	3B
			5.8636	5.8759	5.8341	5.8559	5.8759	5.8300	5.8347	5.8061	5.8402	5.8149	
6-4 or 6.000-4	UN	2A	5.9682	5.9963	5.8339	5.9298	5.9963	5.8215	5.8376	5.7290	5.8537	5.7670	2B
			5.9667	5.9978	5.8336	5.9283	5.9978	5.8218	5.8379	5.7275	5.8534	5.7655	
		3A	5.9719	6.0000	5.8376	5.9366	6.0000	5.8283	5.8376	5.7290	5.8496	5.7594	3B
			5.9704	6.0015	5.8373	5.9351	6.0015	5.8286	5.8379	5.7275	5.8493	5.7579	

TABLE 11 SETTING GAGES FOR STANDARD THREAD SERIES, CLASSES, 1A, 2A, 3A, 1B, 2B, AND 3B
UNIFIED SCREW THREADS — LIMITS OF SIZE (CONT'D)

Nominal Size and Threads/in.	Series Designation	Class	W Thread-Setting Plugs						W Thread-Setting Rings				Class
			GO			NOT GO (LO)			GO		NOT GO (HI)		
			Major Diameter		Pitch Diam.	Major Diameter		Pitch Diam.	Pitch Diam.	Minor Diam.	Pitch Diam.	Minor Diam.	
			Truncated	Full-Form		Truncated	Full-Form						
1	2	3	4	5	6	7	8	9	10	11	12	13	14
			in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
6-6 or 6.000-6	UN	2A	5.9757	5.9967	5.8884	5.9497	5.9967	5.8775	5.8917	5.8200	5.9059	5.8500	2B
			5.9744	5.9980	5.8881	5.9484	5.9980	5.8778	5.8920	5.8187	5.9056	5.8487	
		3A	5.9790	6.0000	5.8917	5.9557	6.0000	5.8835	5.8917	5.8200	5.9024	5.8396	3B
			5.9777	6.0013	5.8914	5.9544	6.0013	5.8838	5.8920	5.8187	5.9021	5.8383	
6-12 or 6.000-12	UN	2A	5.9850	5.9979	5.9438	5.9730	5.9979	5.9369	5.9459	5.9100	5.9549	5.9280	2B
			5.9841	5.9988	5.9435	5.9721	5.9988	5.9372	5.9462	5.9091	5.9546	5.9271	
		3A	5.9871	6.0000	5.9459	5.9768	6.0000	5.9407	5.9459	5.9100	5.9526	5.9198	3B
			5.9862	6.0009	5.9456	5.9759	6.0009	5.9410	5.9462	5.9091	5.9523	5.9189	
6-16 or 6.000-16	UN	2A	5.9876	5.9981	5.9575	5.9784	5.9981	5.9513	5.9594	5.9320	5.9675	5.9460	2B
			5.9867	5.9990	5.9572	5.9775	5.9990	5.9516	5.9597	5.9311	5.9672	5.9451	
		3A	5.9895	6.0000	5.9594	5.9818	6.0000	5.9547	5.9594	5.9320	5.9655	5.9408	3B
			5.9886	6.0009	5.9591	5.9809	6.0009	5.9550	5.9597	5.9311	5.9652	5.9399	

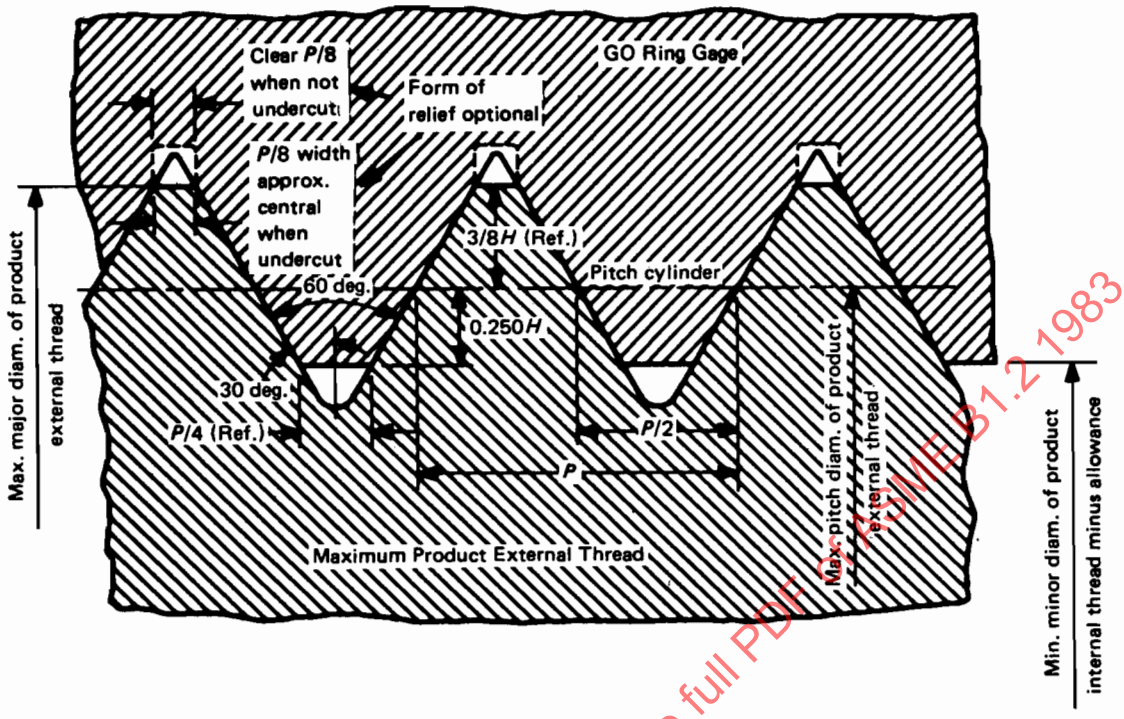


FIG. 18 MAXIMUM-MATERIAL GO FUNCTIONAL LIMIT

5.1.6 Thread Roots. The major diameter of the GO thread ring gage shall be cleared beyond $P/8$ width of flat by either an extension of the flanks toward a sharp vee or by a clearance cut of substantially $P/8$ width and approximately central. The root clearance must be such that the maximum major diameter of the full-form section of the truncated thread-setting plug gage is cleared after the gage has been properly set to size.

5.1.7 Runout of Pitch and Minor Cylinders. On thread ring gages, an eccentric condition results in an undersize effective minor diameter, having a width of flat less than $P/4$, which may encroach on the maximum permissible limit for the root profile of the product external thread. The permissible minimum effective minor diameter as determined by measurements of runout (full-indicator movement) with respect to the pitch cylinder shall not be less than the specified minimum minor diameter minus the sum of the gage tolerances for the pitch and minor diameters.

5.1.8 Pitch Cylinder. Pitch cylinder is transferred by the setting of the thread ring gage to the applicable truncated setting plug gage.

5.1.9 Lead and Half-Angle Variations. Lead and half-angle variations shall be within the limits specified in Table 6. Misalignment of the threads on each side of the adjustable slot may not exceed the lead limits.

5.1.10 Incomplete Thread. The feather edge at both ends of the thread ring gage shall be removed. On gages larger than 1/2 in. or with a pitch coarser than 20 threads/in., remove not more than one pitch of the partially formed thread at each end to obtain a full-thread blunt start. On gages 1/2 in. and smaller or with a pitch of 20 threads/in. or finer, the end threads may have a 60 deg. chamfer from the axis of the gage to a depth of half to one pitch. This is acceptable in lieu of the blunt start.

5.1.11 Chip Grooves. GO thread ring gages of the adjustable type do not require chip grooves as the adjusting slots serve this purpose. Solid working thread ring gages are made with or without chip grooves, depending upon the gage designer's requirements.

5.1.12 Identification. The GO thread ring gage should be identified by the nominal size, threads/in., thread series, class, GO, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2A GO PD.2164

5.2 NOT GO (LO) Thread Ring Gages (Table 1 — Gage 1.2)

5.2.1 Purpose and Use. The NOT GO (LO) thread ring gage inspects the NOT GO (LO) functional diameter limit, B_1, of product external thread. The NOT GO (LO) thread ring gage, when properly set to its respective calibrated thread-setting plug, represents the NOT GO (LO) functional diameter limit of the product external thread. The NOT GO (LO) thread ring gage and NOT GO (LO) threaded segment type indicating gage are more reliable for checking thin-walled parts which might be deformed bv a NOT GO (LO) thread snap. NOT GO (LO) thread ring gages must be set to the applicable W tolerance-setting plugs.

NOT GO (LO) thread ring gages when applied to the product external thread may engage only the end threads (which may not be representative of the complete product thread).

Starting threads on NOT GO (LO) thread ring gages are subject to greater wear than the remaining threads. Such wear in combination with the incomplete threads at the end of the product thread permit further entry in the gage. NOT GO (LO) functional diameter is acceptable when the NOT GO (LO) thread ring gage applied to the product external thread does not pass over the thread more than three complete turns. The gage should not be forced. Special requirements such as exceptionally thin or ductile material, small number of threads, etc., may necessitate modification of this practice.

5.2.2 Basic Design. To better check the NOT GO (LO) functional diameter limit, the flank contact is less than that of the GO gage, and the length of the gaging element where practical is less than that of the GO gage.

5.2.3 Gage Blanks. For practical and economic reasons, the designs and thicknesses of thread ring gages have been standardized for various size ranges and pitches (see ANSI B47.1 or Table A4).

5.2.4 Thread Form. The specifications for thread form are summarized in Table 4 and Fig. 19.

5.2.5 Thread Crests. The minimum minor diameter of the NOT GO (LO) thread ring gage shall be equal to the minimum pitch diameter of the external thread minus $0.25H$ with gage tolerance plus. This corresponds to a width of flat at the crest of the gage equal to $0.375p$. See Table 4.

5.2.6 Thread Roots. The major diameter of the NOT GO (LO) thread ring gage shall clear the product thread by using a clearance cut of $0.25p$ width approximately central. The NOT GO (LO) thread ring gage shall clear the maximum major diameter of the full-form portion of the truncated thread-setting plug for the NOT GO (LO) thread ring gage. Thus, contact of the thread gage can occur on the sides of the threads, but not on the crest or root. Also, the effect of angle variation on the fit of the gage with the product thread is minimized.

5.2.7 Runout of Pitch and Minor Diameter Cylinders. The permissible minimum effective minor diameter, as determined by subtracting runout measurement (full-indicator movement) with respect to the pitch cylinder from the measured minor diameter, shall not be less than the specified minimum minor diameter minus twice the sum of the gage tolerances for pitch and minor diameters.

5.2.8 Pitch Cylinder. Pitch cylinder is transferred by the setting of the thread ring gage to the applicable truncated setting plug gage.

5.2.9 Lead and Half-Angle Variations. Lead and half-angle variations shall be within the limits specified in Table 6.

5.2.10 Incomplete Thread. The feather edge at both ends of the thread ring gage shall be removed. On gages larger than 1/2 in. nominal size or having pitches coarser than 20 threads/in., not more than one complete turn of the end threads shall be removed to obtain a full-thread blunt start. On gages 1/2 in. nominal size and smaller or having pitches of 20 threads/in. or finer, a 60 deg. chamfer from the axis of the gage is acceptable in lieu of the blunt start.

5.2.11 Identification. The NOT GO (LO) thread gage should be identified by the nominal size, threads/in., thread series, class, NOT GO, PD, and pitch diameter.

EXAMPLE:
1/420 (or .250-20) UNC-2A NOT GO PD.2127

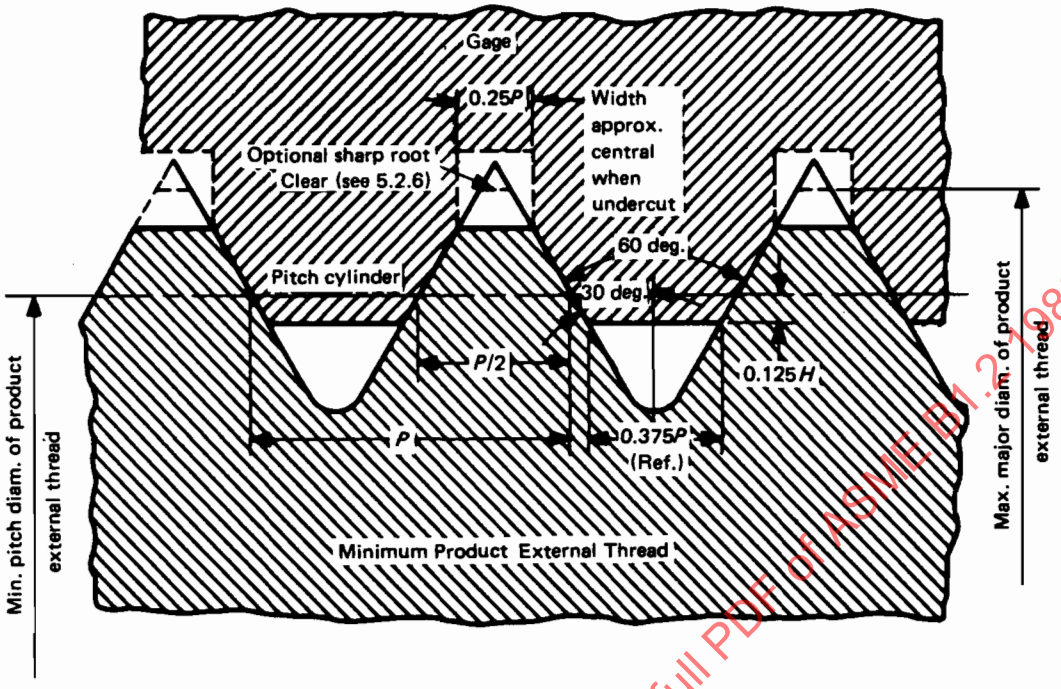


FIG. 19 NOT GO (LO) FUNCTIONAL DIAMETER LIMIT

5.3 Thread Snap Gages — GO Segments or Rolls (Table 1 — Gage 2.1 and 2.3)

5.3.1 Purpose and Use. The thread snap gage with two GO threaded segments or two GO zero lead rolls inspects the maximum-material GO functional limit, A_1, of product external thread. The setting of the GO segments or rolls represents the maximum material GO functional limit of the product external thread, and its purpose is to assure interchangeable assembly of maximum-material mating parts. The gaging length of the segments or rolls is equal to the length of the standard GO ring gages. The segments or rolls have a cumulative check of all thread elements except the major diameter.

The GO thread snap gage can also check roundness of the pitch cylinder for 180 deg. ovality by using the gage at different external diametral locations on the product thread.

5.3.2 Basic Design. The GO segments and rolls assembled into gage frames are the design of the individual gage manufacturer. The lengths of the two threaded segments and the two thread rolls spaced 180 deg. apart are equal to the standard GO ring gage blank lengths for practical and economic reasons. See ANSI B47.1 or Table A4.

GO thread segments shall engage 25% or more of the product circumference. Product shall be checked around full circumference of thread at sufficient axial positions to check the full-thread length.

Thread rolls shall be applied at several locations (three if possible) axially over the full-thread length of the product. The circumference shall be checked at each position.

5.3.3 Thread Form. The specifications for thread form are summarized in Table 4 and Fig. 20.

5.3.4 Thread Crests. The distance between the minor diameter of the GO thread segments and the outside diameter of GO thread rolls shall be equal to the maximum pitch diameter of the product external thread minus $H/2$ with a minus gage tolerance when assembled in gage frame. This corresponds to a width of flat of $P/4$ on crests. The thread crests shall be flat in an axial plane and parallel to the axis.

5.3.5 Thread Roots. The major diameter of the GO thread segments and root diameter of the GO rolls shall be cleared beyond a $P/8$ flat either by an extension of the flanks of the thread toward a sharp vee or by an undercut no greater than $P/8$ maximum width and approximately central. The root clearance

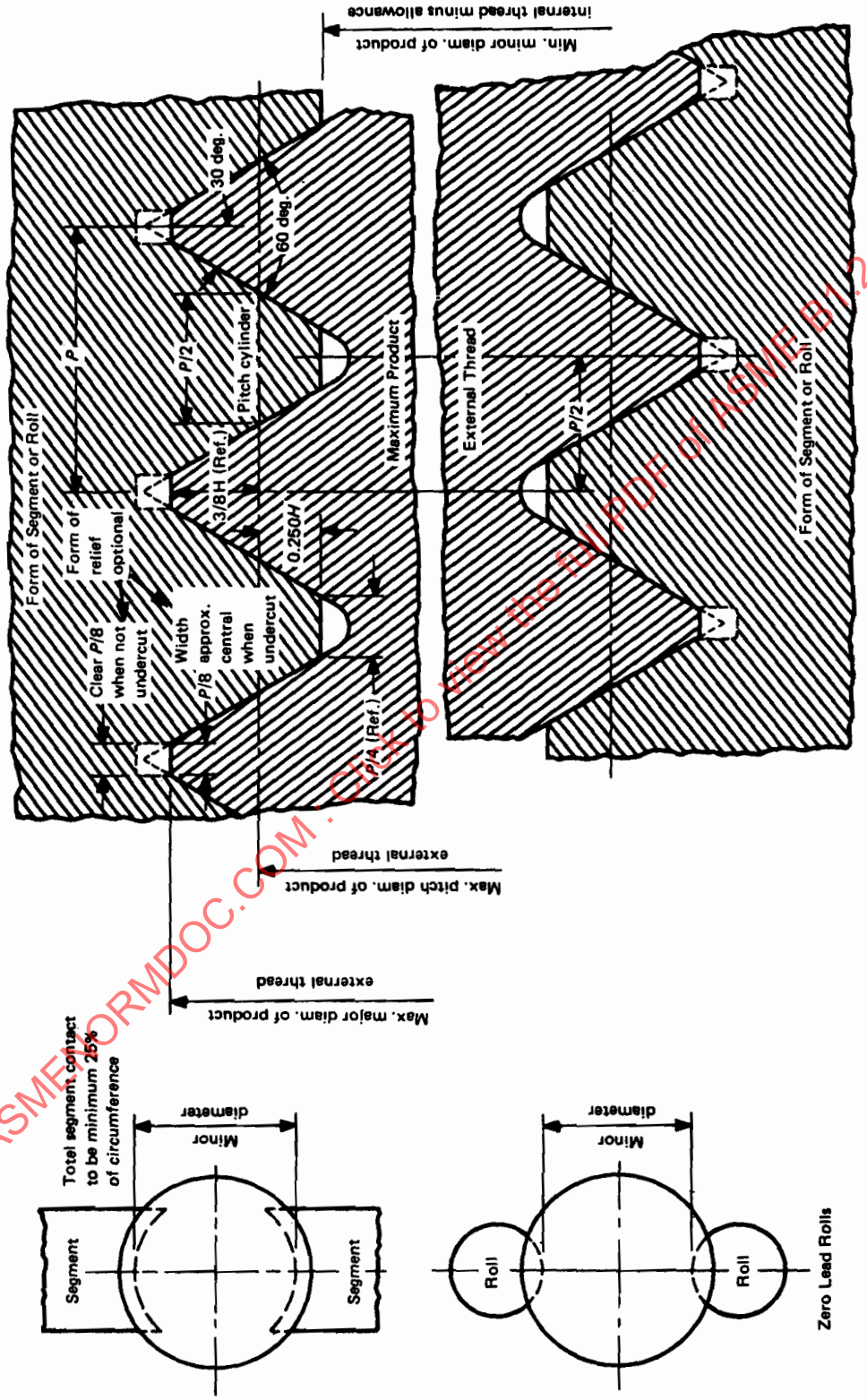


FIG. 20 THREAD SNAP GAGES — MAXIMUM-MATERIAL GO FUNCTIONAL LIMIT

must be such that the maximum major diameter of the full-form section of the truncated thread-setting plug gage is cleared after the gage has been properly set to size.

5.3.6 Runout. The pitch and minor cylinders of the threaded portion of the GO segments or rolls shall not exceed the specified runout as determined by measurements of runout (full-indicator movement). On each gaging member, with respect to the pitch cylinder, runout shall not exceed one-half the X gage minor diameter tolerance.

5.3.7 Pitch Cylinder. The pitch cylinder of the threaded GO segments and rolls shall be straight within the X gage pitch diameter limits specified.

5.3.8 Lead, Pitch, and Half-Angle Variations. Lead, pitch, and half-angle variations shall be within the limits specified. See Table 6.

5.3.9 Identification. The assembled gage should be marked by the nominal size, threads/in., thread series, class, GO, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2A GO PD.2164

5.4 Thread Snap Gages — NOT GO (LO) Segments or Rolls (Table 1 — Gage 2.2 and 2.4)

5.4.1 Purpose and Use. The thread snap gage with two NOT GO (LO) segments or two NOT GO (LO) rolls inspects the NOT GO (LO) functional diameter limit, B_1, of product external thread. The setting of the NOT GO (LO) segments or rolls represents the NOT GO (LO) functional diameter limit of the product external thread. In applying the thread snap limit gage, the NOT GO (LO) functional diameter is acceptable when gaging elements do not pass over the product thread.

The NOT GO (LO) thread snap gage can also check roundness of the pitch cylinder for 180 deg. ovality by passing the gage over the thread at different diametral locations on the external thread.

The NOT GO (LO) thread snap gage can also check taper of pitch cylinder by passing the gage over the thread at different locations axially on external thread.

5.4.2 Basic Design. In order that the NOT GO (LO) thread snap gage may effectively check the NOT GO (LO) functional diameter limit, the flank contact is reduced by truncating the thread on segments and rolls. As the design of the segments or rolls is different with each gage manufacturer, the number of threads engaged in product thread will vary. Usually, the number of pitches engaged is approximately two.

5.4.3 Thread Form. The specifications for thread form are summarized in Table 4 and Fig. 21.

5.4.4 Thread Crests. The minor diameter of the NOT GO (LO) thread segments and the inner distance between the outside diameters of NOT GO (LO) thread rolls shall be equal to the minimum pitch diameter of the product external thread minus $0.25H$ with the gage tolerance plus when assembled in gage frame. This corresponds to a width of flat at the crest equal to $0.375p$. See Table 4.

5.4.5 Thread Roots. The major diameter of the NOT GO (LO) thread segments or root diameter of the NOT GO (LO) rolls shall clear the product thread by using a clearance cut of $0.25p$ width approximately central. Snap gage contacts shall clear the maximum major diameter of the full-form portion of the setting plug for the NOT GO (LO) thread snap gage. Thus, contact of the thread gage can occur on the sides of the thread but not on the crest or root. Also, the effect of angle variation on the fit of the gage with the product thread is minimized.

5.4.6 Runout. The pitch and minor cylinders of the threaded NOT GO (LO) segments or the pitch and outside cylinders of the rolls shall not exceed the specified runout as determined by measurement of runout (full-indicator movement). On each gaging member, with respect to the pitch cylinder, runout shall not exceed one-half the X gage minor diameter tolerance.

5.4.7 Pitch Cylinder. The pitch cylinder of the threaded NOT GO (LO) segments or rolls shall be straight within the X gage pitch diameter limits specified.

5.4.8 Lead, Pitch, and Half-Angle Variations. Lead, pitch, and half-angle variations shall be within the limits specified. See Table 6.

5.4.9 Identification. The assembled gage should be marked by the nominal size, threads/in., thread series, class, NOT GO, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2A NOT GO PD.2127

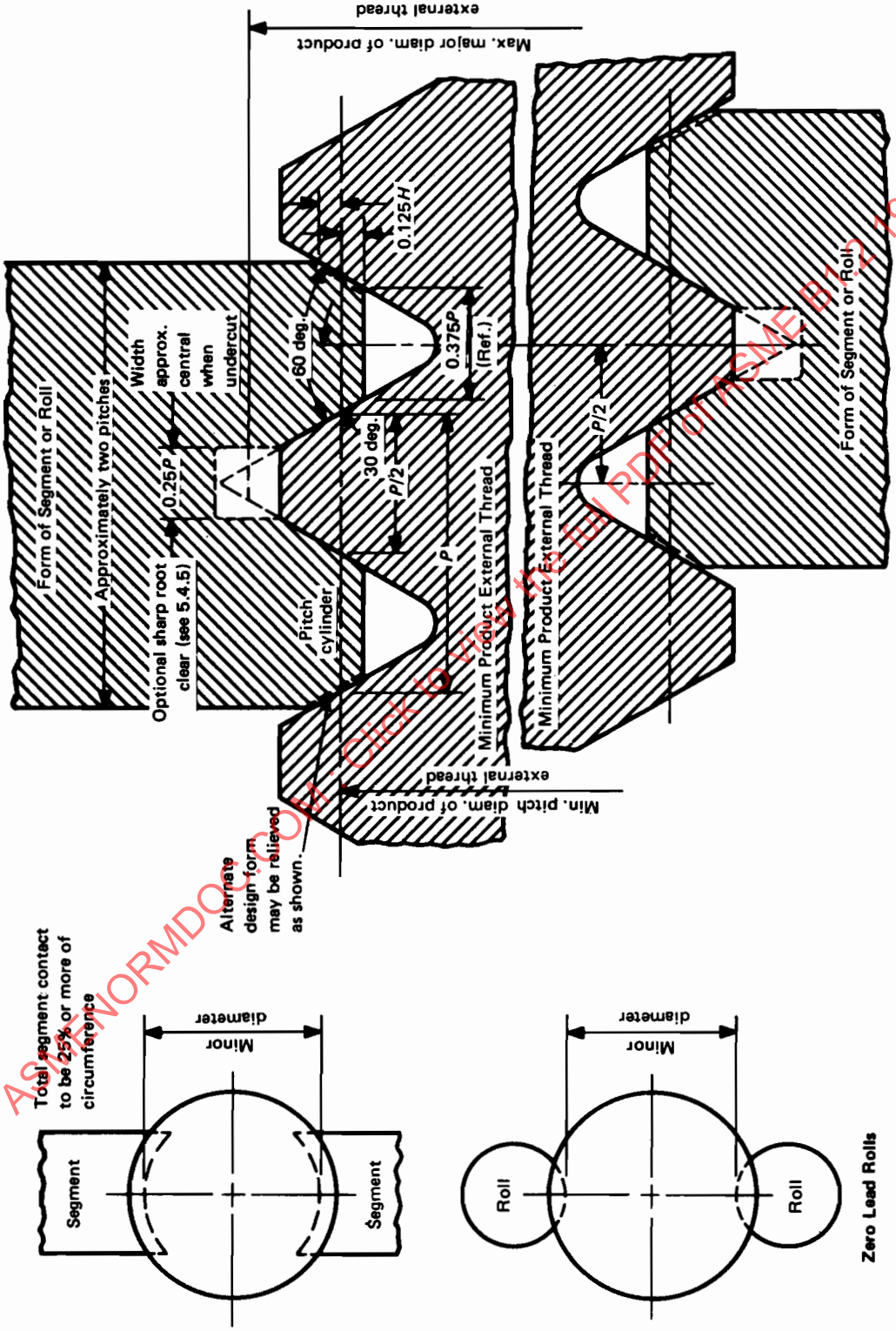


FIG. 21 THREAD SNAP GAGES — NOT GO (LO) FUNCTIONAL DIAMETER LIMIT

5.5 Thread Snap Gages — Cone and Vee (Table 1 — Gage 2.5)

5.5.1 Purpose and Use. The thread snap gage with cone and vee rolls or segments inspects minimum-material diameter limit, C_1. The setting of the cone and vee rolls or segments represents the minimum-material limit pitch diameter of the product external thread.

The cone and vee snap gage can check roundness of pitch diameter for 180 deg. ovality by passing the gage over the thread at different diametral locations on the external thread.

The cone and vee snap gage can check taper of pitch cylinder by passing the gage over the thread at different locations axially on external thread.

5.5.2 Basic Design. The segments are usually made having a surface contact at or slightly above the pitch line near the center of the flank. The rolls make point or line contacts approximately at the pitch line, depending upon the angle variations of the thread flanks. See Fig. 22 for details.

5.5.3 Thread Form. The specifications for thread form, thread crests, and thread roots are shown in Fig. 22.

5.5.4 Identification. The assembled gage should be marked by the nominal size, threads/in., thread series, class, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2A PD.2127

5.6 Thread Snap Gages — Minimum Material: Thread Groove Diameter Type (Table 1 — Gage 2.6)

5.6.1 Purpose and Use. The thread snap gage with radius type ribbed rolls inspects minimum-material diameter limit, D_1. The setting of the thread groove diameter type snap gage by NOT GO (LO) setting plug gage represents the minimum-material limit pitch diameter of the product external thread.

The thread groove diameter type snap gage can check roundness for 180 deg. ovality by passing the gage over the thread at different diametral locations on the external thread.

The thread groove diameter type snap gage can check taper of pitch cylinder by passing the gage over the thread at different locations axially on external thread.

5.6.2 Basic Design. The thread groove diameter type has "best size" thread wire size radius ribbed rolls which contact at the pitch line.

5.6.3 Thread Form. The specifications for radius type rolls are shown in Fig. 23.

5.6.4 Identification. The assembled gage should be marked by the nominal size, threads/in., thread series, class, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2A PD.2127

5.7 Plain Ring and Snap Gages to Check Major Diameter of Product External Threads (Table 1 — Gages 3.1, 3.2, and 3.4)

5.7.1 Purpose and Use. The GO and NOT GO cylindrical ring and plain snap gages inspect the major diameter of the product external thread. The GO gage must completely receive or pass over the major diameter of the product external thread to assure that the major diameter does not exceed the maximum-material limit. The NOT GO cylindrical ring gage or NOT GO plain snap gage must not pass over the major diameter of the product external thread to assure that the major diameter is not less than the minimum-material limit.

5.7.2 Design of Gage Blanks and Gages. Plain cylindrical ring blanks and plain progressive adjustable snap gages have been standardized for various size ranges (see ANSI B47.1 and Fig. 24).

5.7.3 Identification. Cylindrical rings or plain snap gages should be marked with nominal size, threads/in., thread series, class, GO and/or NOT GO, and major diameter limits.

EXAMPLE:
1/4-20 UNC-2A GO.2489 and/or NOT GO.2408

5.7.4 Precision Instruments (Table 1 — Gage 14). Precision instruments such as dial calipers, outside micrometers, vernier calipers, and pocket slide calipers can also be used to measure the major diameter of product external thread.

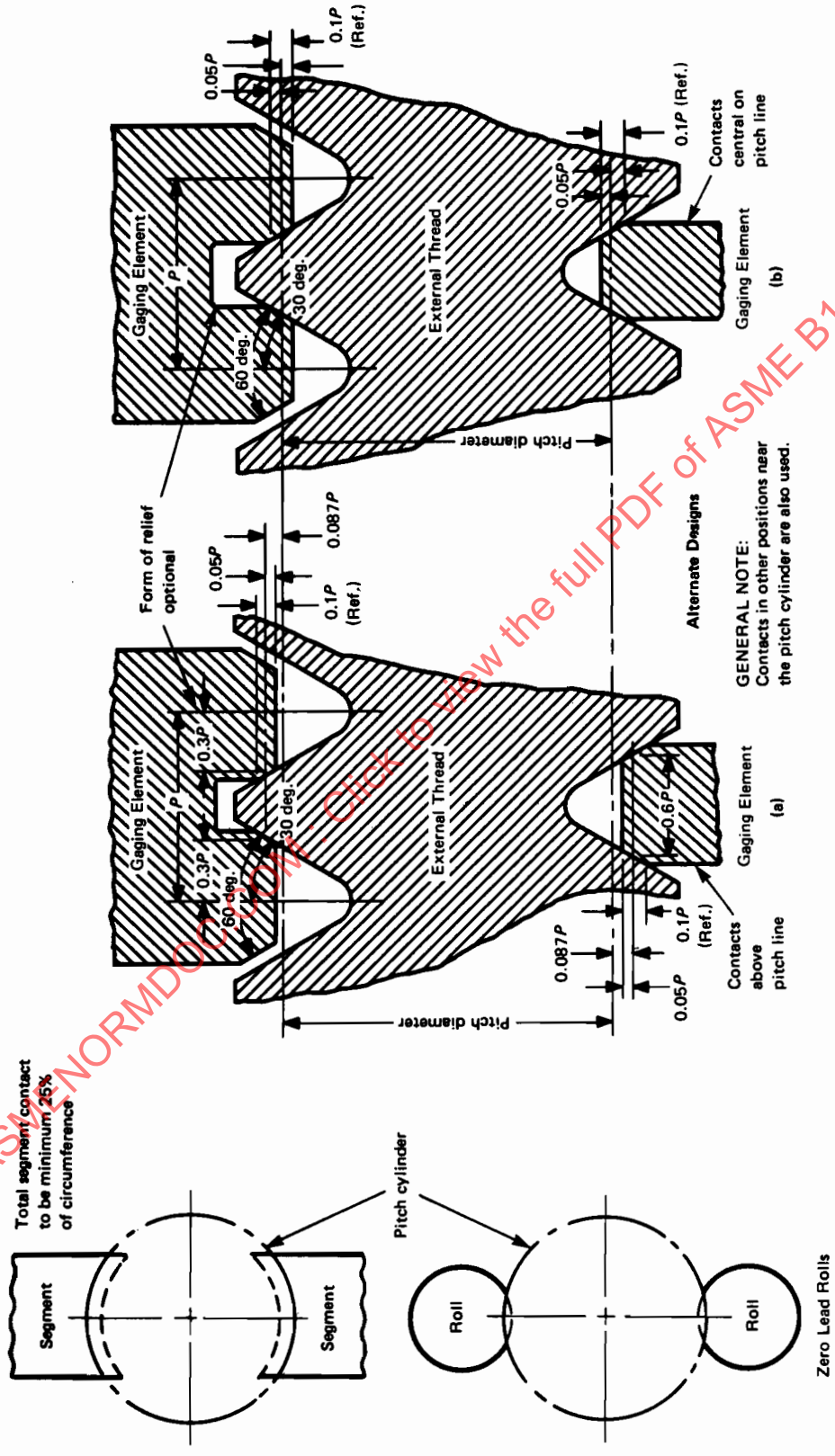


FIG. 22 THREAD SNAP GAGES — MINIMUM-MATERIAL PITCH DIAMETER LIMIT — CONE AND VEE

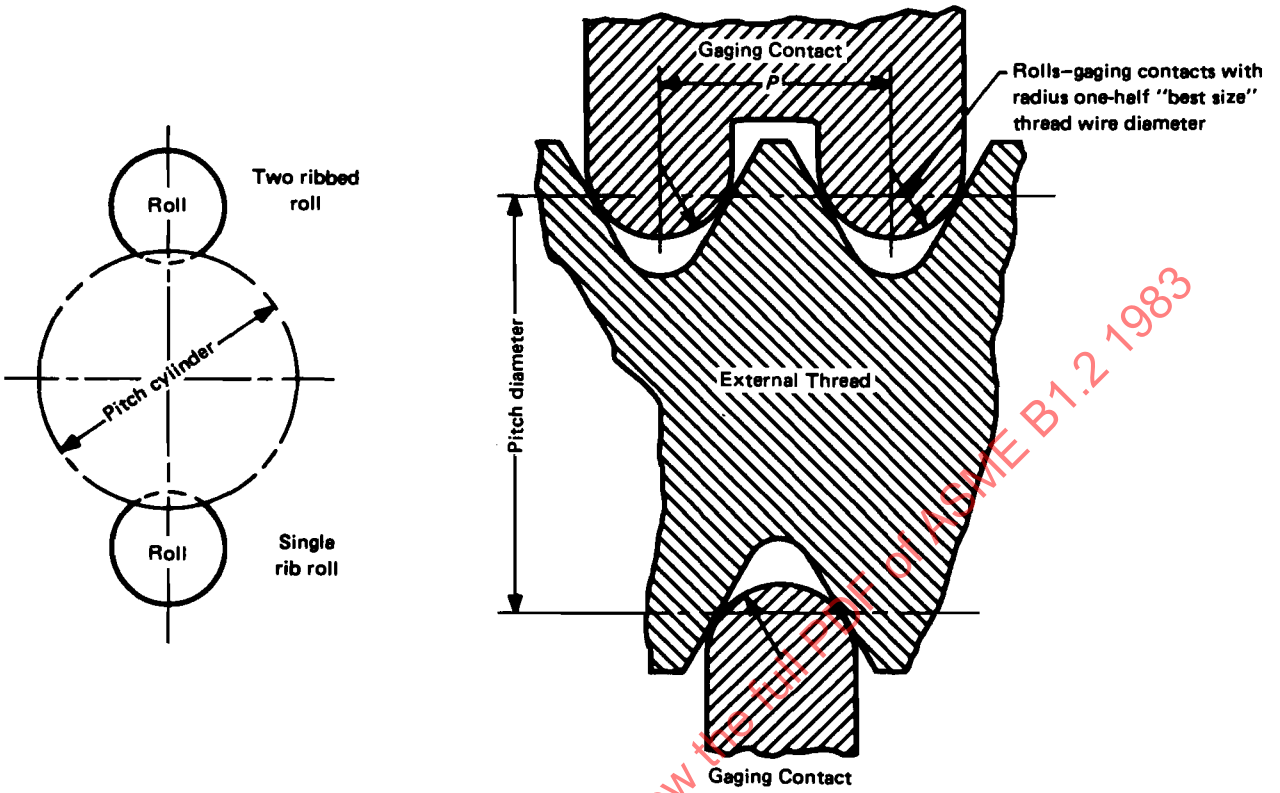


FIG. 23 THREAD SNAP GAGES — MINIMUM-MATERIAL THREAD GROOVE DIAMETER LIMIT

5.8 Snap Gages for Minor Diameter of Product External Threads (Table 1 — Gages 3.3 and 3.5)

5.8.1 Purpose and Use. The GO thread ring gages inspect the depth of thread equivalent to the minor diameter of the product internal thread. If the minor diameter of the external thread requires checking, a minimum-maximum thread snap gage may be used. GO segment or roll snap gage must pass over product thread. NOT GO segment or roll must not pass over product thread.

5.8.2 Basic Design. A thread snap gage has segments or rolls with a thread form of 55 deg. maximum. There usually are three threads on the segments or three ribs on the rolls on GO and NOT GO gaging elements. See Fig. 25.

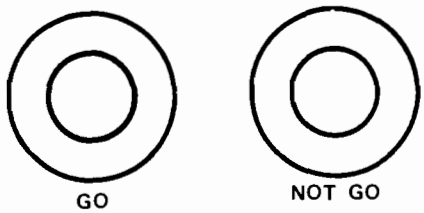
5.8.3 Identification. Thread snap gages should be marked with nominal size, threads/in., thread series, class, GO and NOT GO minor diameter limits, and MINOR DIAMETER EXTERNAL.

EXAMPLE:
1/4-20 (or .250-20) UNC-2A GO — NOT GO (Customer's Specifications) MINOR DIAMETER EXTERNAL

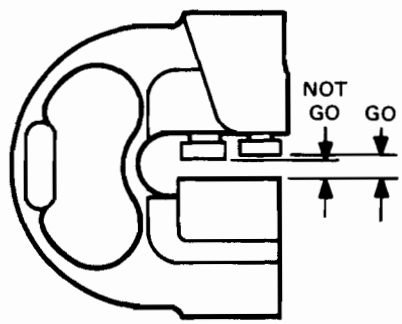
5.9 Functional Indicating Thread Gages for External Thread (Table 1 — Gages 4.1 and 4.3)

5.9.1 Purpose and Use. The GO indicating thread gage (4.1 and 4.3) inspects the maximum-material GO functional limit and size, A_1 and A_2, and the NOT GO (LO) functional diameter limit and size, B_1 and B_2, of product external thread. The gage is also used to check even or odd lobe roundness of pitch cylinder. Indicating thread gages must be set to the proper thread-setting plug gages. Readings indicate the position of product external thread within the tolerance range.

5.9.2 Basic Design. Indicating gages have two or three contacts at 180 deg. or 120 deg., respectively. Gages with segments or rolls are designed with the length of the GO functional maximum-material gag-



(a) Cylindrical Ring Gages
(Made to Class Z tolerance, Table 8)



(b) Adjustable Limit Snap Gage
(see ANSI/ASME B47.1 for details)

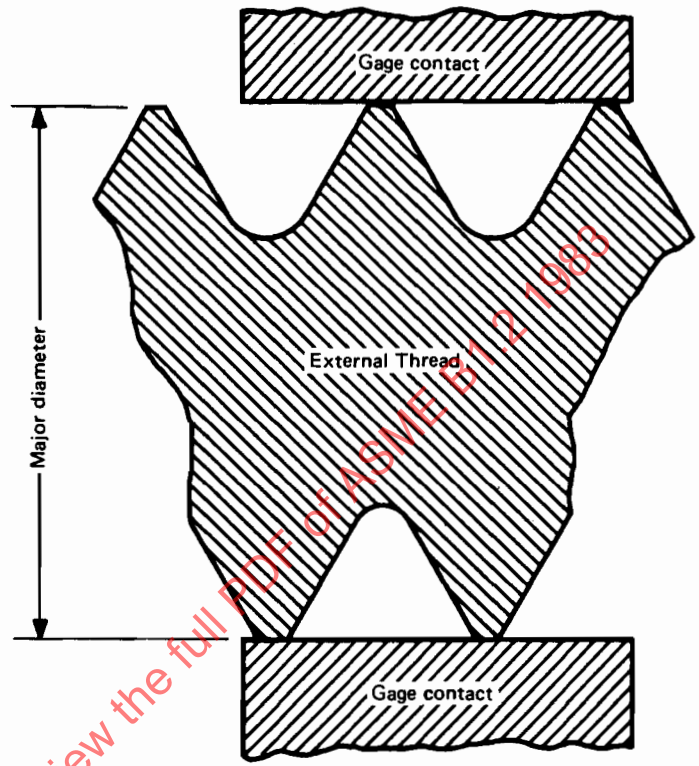


FIG. 24 MAJOR DIAMETER LIMIT

ing elements equal to the length of the standard GO ring gages.

5.9.3 Thread Form. The specifications for thread form for GO functional maximum-material segments and rolls are summarized in Table 4 and Fig. 26.

5.9.4 Thread Crests. The minor diameter of the GO functional maximum-material thread segments and the diameter of the circle surrounded by the roll cluster of GO functional maximum-material rolls shall be equal to the maximum pitch diameter of the product external thread minus $H/2$ with a minus X gage tolerance when assembled in gage frame. This corresponds to a width of flat of $P/4$ on crests. The thread crests shall be flat in an axial plane and parallel to the axis of segment or roll.

5.9.5 Thread Roots. The major diameter of the GO functional maximum-material thread segments and the root of the GO functional maximum-material rolls shall be cleared beyond a $P/8$ flat either by an extension of the flanks of the thread toward a sharp vee or by an undercut no greater than $P/8$ maximum width and approximately central. The root clearance must be such that the major diameter of the full-form section of the thread-setting plug gage is cleared after the assembled gage has been properly set to size.

5.9.6 Runout. The pitch and minor cylinders of the threaded segments and the pitch and outside cylinders of the rolls shall not exceed the specified runout as determined by measurements of runout (full-indicator movement). On each gaging member with respect to the pitch cylinder, runout shall not exceed one-half the X gage minor diameter tolerance.

5.9.7 Pitch Cylinder. The pitch cylinder of the thread segments and rolls should be straight within the X gage pitch diameter limits specified.

5.9.8 Lead, Pitch, and Half-Angle Variations. Lead, pitch, and half-angle variations shall be within the limits specified. See Table 6.

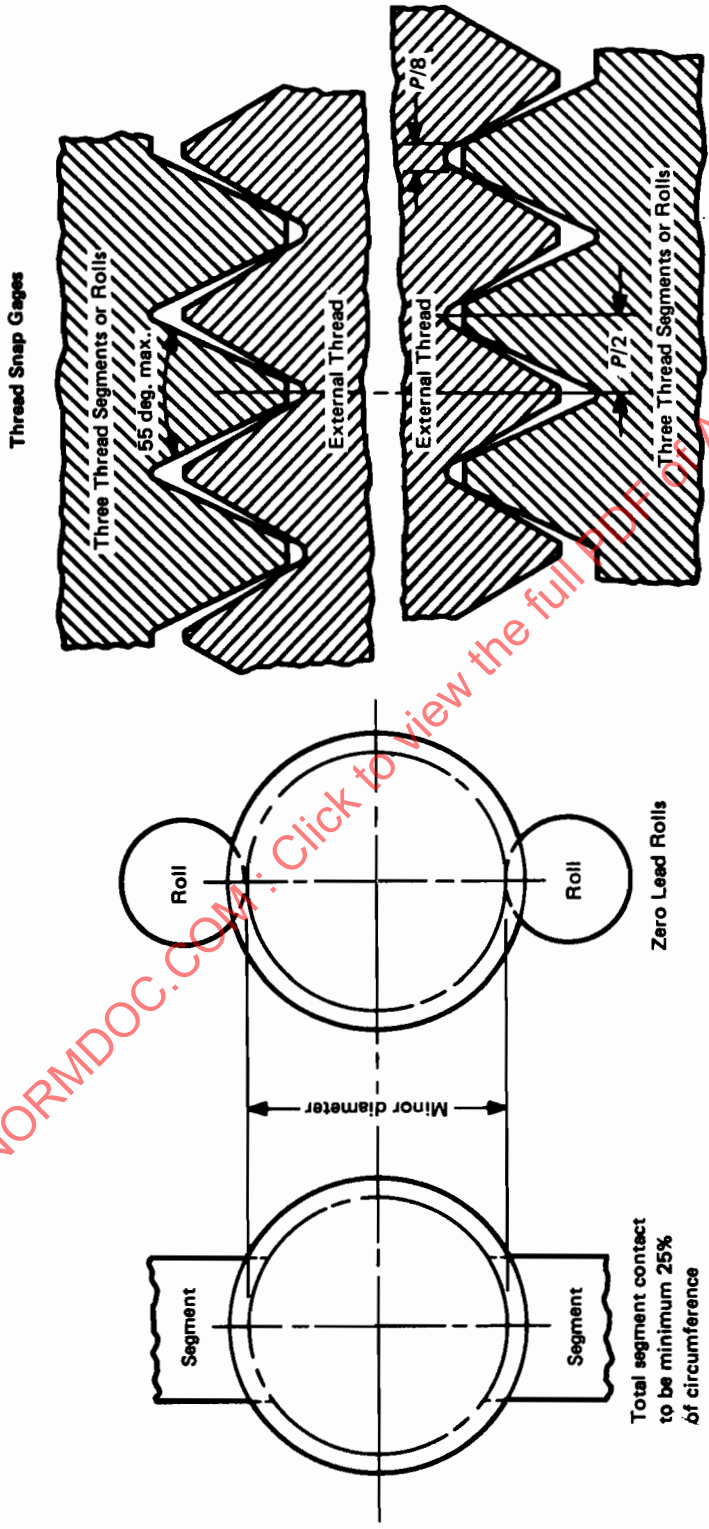


FIG. 25 MINOR DIAMETER LIMIT SNAP TYPE

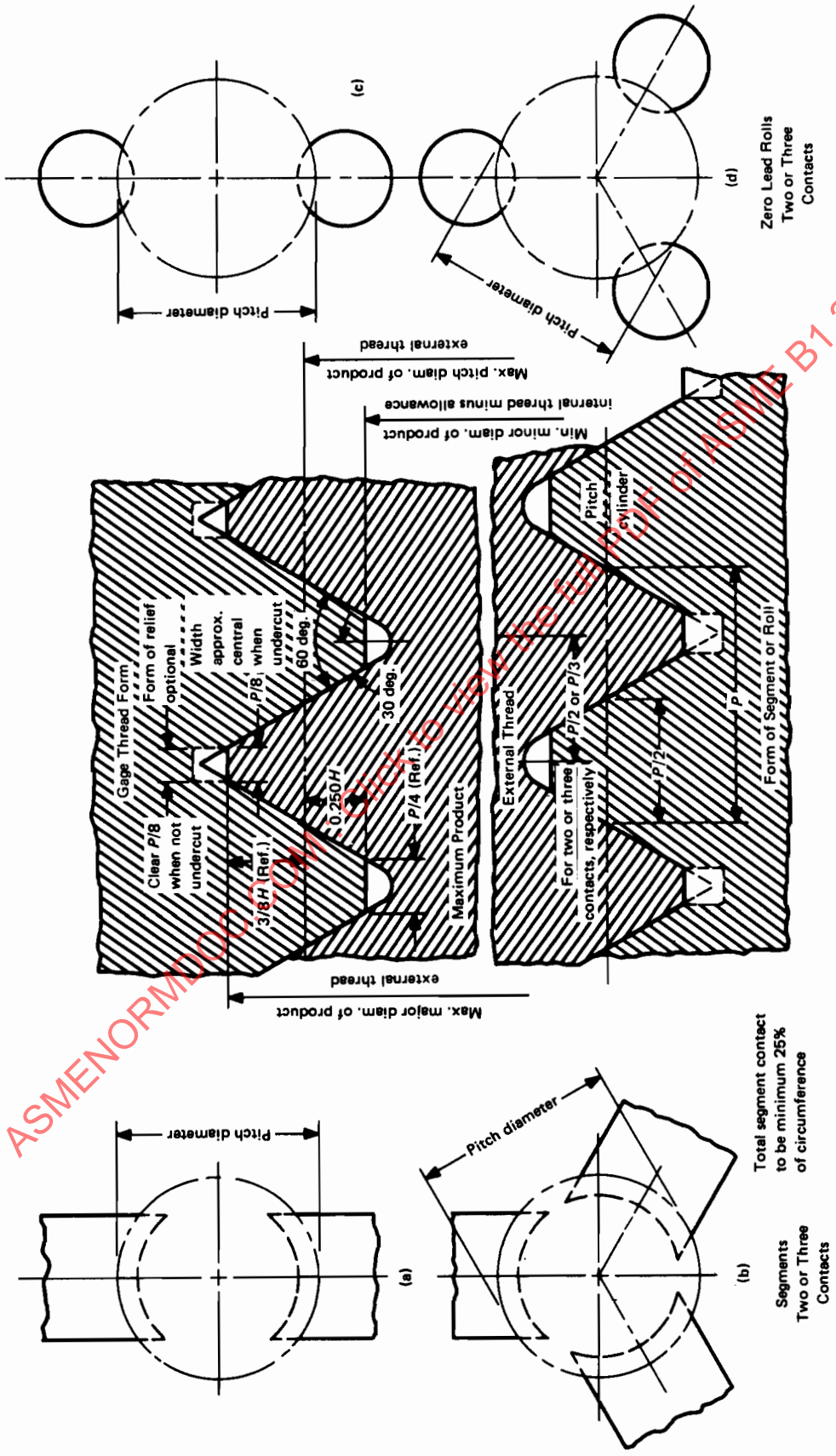


FIG. 26 INDICATING THREAD GAGES — MAXIMUM-MATERIAL GO FUNCTIONAL DIAMETER LIMIT AND SIZE

5.9.9 Identification. The segments and rolls shall be identified by the nominal size and threads/in. When indicating gage is assembled with proper contacts, the gage should be tagged with the nominal size, threads/in., thread series, class, PD, and pitch diameter limits.

EXAMPLE:
1/4-20 (or .250-20) UNC-2A PD.2164-.2127

5.10 Minimum-Material Indicating Thread Gages for External Thread (Table 1 — Gages 4.5 and 4.6)

5.10.1 Purpose and Use. The indicating thread gage with cone and vee rolls or segments and the thread groove diameter type with rolls inspects the minimum-material limit and size (C_1 and C_2, D_1 and D_2) of product external thread. Either type of three-roll and three-segment gage can check roundness of pitch cylinder for 120 deg. lobing and taper of pitch cylinder. The two rolls and two segments check even lobing roundness and taper. The indicating gages are set to the proper thread-setting plug gage. Readings indicate the position of product external thread pitch diameter within the tolerance range.

5.10.2 Basic Design. The cone and vee indicating thread gage has rolls or segments with contact near the pitch line or contact slightly above the pitch line near the center of the flank. The thread groove diameter type indicating thread gage also has two or three rolls with the radii on the ribs of rolls made to "best size" thread wire size.

5.10.3 Thread Form. The specifications on form of cone and vee rolls and segments and thread groove diameter type rolls are shown in Figs. 27 and 28.

5.10.4 Identification. The assembled gage should be tagged with the nominal size, threads/in., thread series, class, PD, and pitch diameter.

EXAMPLE:
1/4-20 (or .250-20) UNC-2A PD.2127

5.11 Indicating Runout Gage for External Threads (Table 1 — Gage 4.7)

5.11.1 Purpose and Use. This indicating gage inspects the runout of the major diameter, M_1, to the pitch diameter of the product external thread. Readings indicate the position of product major diameter to the pitch diameter within the tolerance specified.

5.11.2 Basic Design. Indicating gages have three contacts, one plain and one threaded, at 120 deg., or two contacts, one plain and one threaded, at 180 deg. The threaded segments or roll contacts are minimum-material pitch diameter type. See Fig. 27. The length of the plain and threaded contacts are designed equal to the length of the standard GO ring gages. See ANSI B47.1 and Table A4. The indicating gage is set to a basic full-form thread-setting plug gage with plain gaging contact on outside diameter of thread-setting plug gage and thread contact on pitch diameter of thread-setting plug gage.

5.11.3 Thread Form, Thread Crests, and Lead and Half-Angle Variations. The specifications for thread form, thread crests, and lead and half-angle of thread segments and thread rolls are noted in 5.9. Plain contacts have a line bearing on major diameter of product. See Fig. 29.

5.11.4 Identification. The gaging elements, segments, or rolls should be marked with nominal size and threads/in. When indicating gage is assembled with proper gaging contacts, the indicating gage should be tagged with nominal size, threads/in., thread series, class, and RUNOUT.

EXAMPLE:
1/4-20 (or .250-20) UNC-2A RUNOUT

5.12 Differential Gaging (Table 1 — Gage 4.8)

5.12.1 The concept of differential gaging for product external threads makes use of fundamental geometric theorems that relate directly to size, position, and form.

For differential gaging, two methods are used for measuring screw thread size:

(*a*) GO functional size

(*b*) pitch diameter (or thread groove diameter)

Only when a screw thread has perfect position and form [i.e., zero variation in lead (including helical path), flank angle, taper, and roundness] are these two measurements equal. Differential gaging is a variables method of in-process inspection, final conformance inspection, or both, that provides the actual numerical values for both GO functional and pitch diameter sizes. These are the two extreme sizes of any product screw thread. One of the sizes, pitch diamter, is the size of the thread pitch diameter with essentially zero variation in all other thread elements, while the other size, GO functional size, is the size of the thread with the effects of all variations in all other

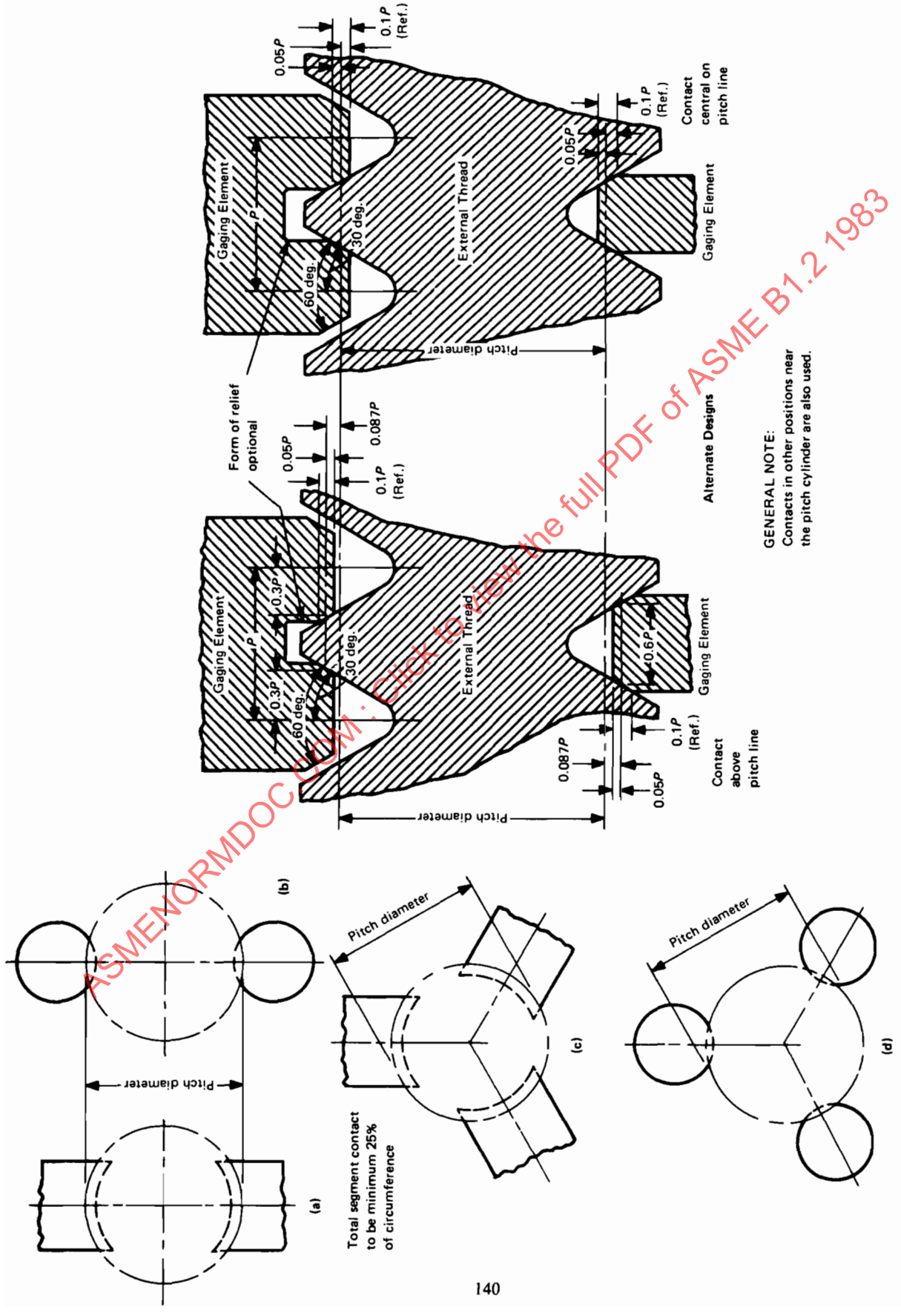


FIG. 27 INDICATING THREAD GAGES — MINIMUM-MATERIAL PITCH DIAMETER LIMIT AND SIZE — CONE AND VEE

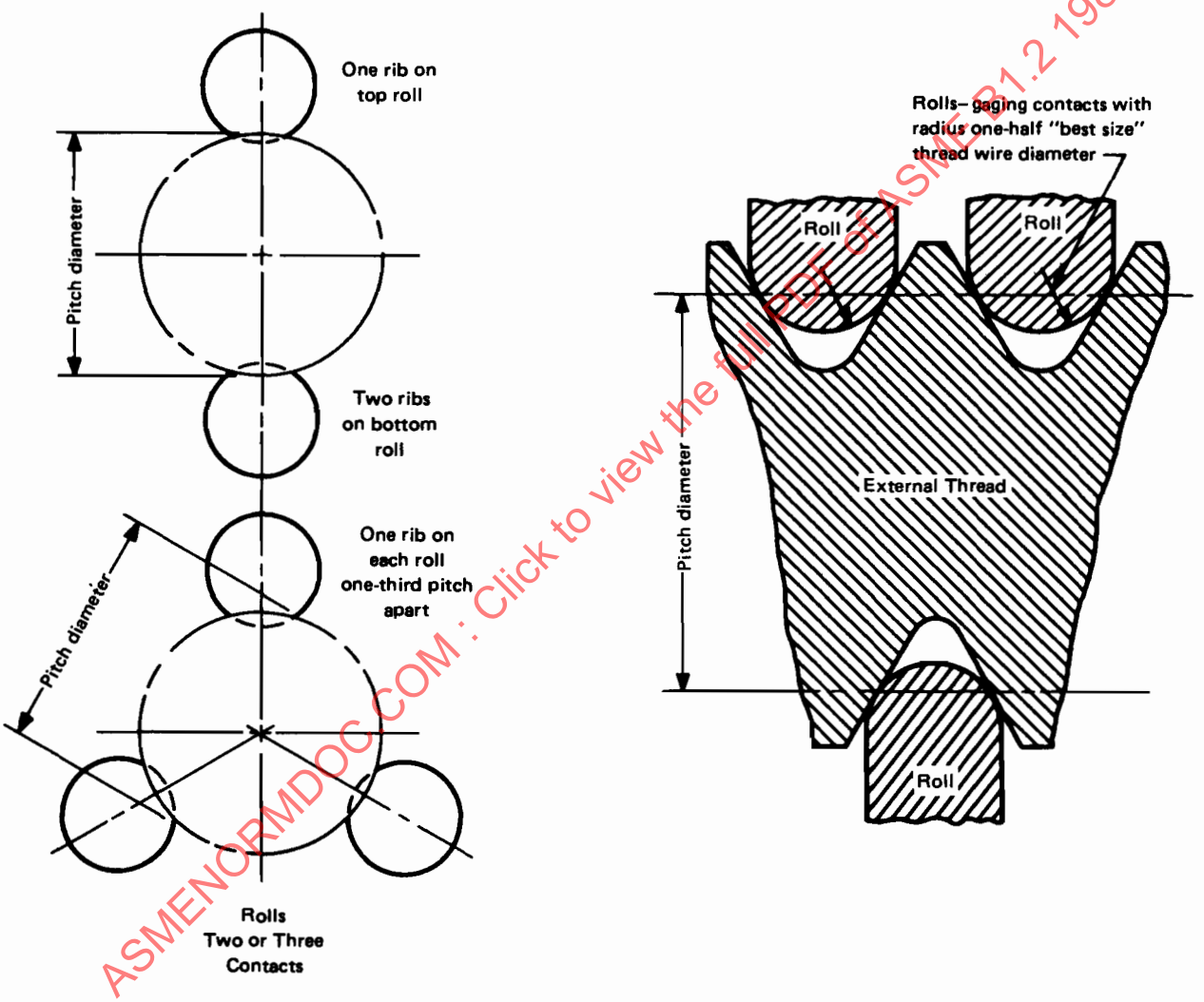


FIG. 28 INDICATING THREAD GAGES—MINIMUM-MATERIAL THREAD GROOVE DIAMETER LIMIT AND SIZE

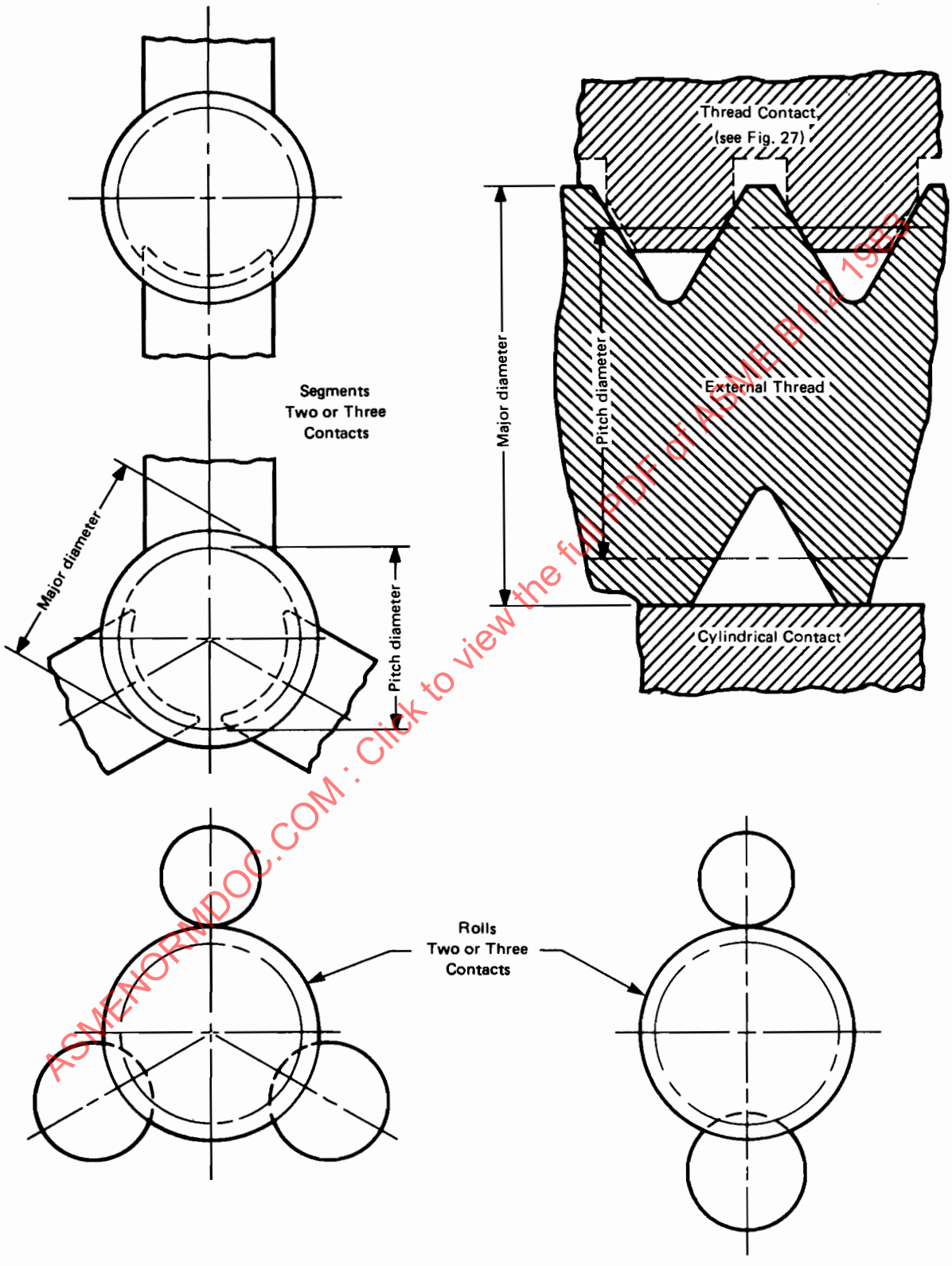


FIG. 29 INDICATING THREAD GAGES — DIAMETER RUNOUT — MAJOR TO PITCH