

Precision Gage Solutions





Dear Valued Customer,

The new Thread Check, Inc. "Precision Gage Solutions" catalog features an extensive product line of precision gages, measuring instruments, cutting tools, software, engineering services, and support.

Thread Check Inc.'s customer service team is led by expertly trained sales engineers and supported by some of the industry's most talented manufacturing engineers and gauging experts.

In addition to the thousands of high quality precision products referenced in this catalog, Thread Check, Inc. has the capability and resources to procure and distribute quality products from thousands of leading companies.

We are pleased to assist you with all your standard and special requirements.

Your comments and suggestions are always welcomed as they help us to become a better company. Please contact us anytime.



EXPEDITE SERVICE

Thread Check, Inc. offers express manufacturing and delivery on many items at a premium charge. Call for price and delivery via Expedite Service.

SPECIALS:

Thread Check, Inc. does specials! If you do not see an item in our catalog, call our sales engineering staff for price and availability. Thread Check's engineering staff will assist in designing and manufacturing of special gaging products from concept to completion.

SERVICES:

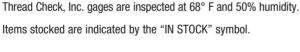
Thread Check, Inc. offers calibration services through an ISO 9001 and ISO 17025 Accredited Metrology Facility. Standard turnaround time is 2-3 days on many items. Call for pricing.

All items unless noted are manufactured in the U.S.A.



Thread Check, Inc. ships world wide.

All Thread Check, Inc. gages and precision measuring instruments are traceable to N.I.S.T.





CONTACT INFORMATION

Thread Check, Inc. 390 Oser Ave. Hauppauge, NY 11788 USA

in the U.S. and Canada Toll-Free Fax: 800-767-2034 World Wide: 631-231-1515 24 Hour Fax: 631-231-1625

Toll Free 800-767-7633



sales@threadcheck.com techsupport@threadcheck.com info@threadcheck.com Web: www.threadcheck.com Office Hours: Mon.-Fri. 8:30 AM - 5:30 PM (08:30-17:30hrs.) Eastern Time

HOW TO ORDER:

Call, fax, or email us for the fastest service. All purchase orders faxed or emailed must have the following information:

- Ship to: / Bill to information
- Telephone/Fax numbers
- Contact information

TERMS:

Thread Check's accepted methods of payment:









CREDIT ACCOUNT - TERMS NET 30 DAYS

To set up a Thread Check, Inc. credit account, please fax a standard credit application sheet consisting of Ship to:/Bill to: information, 3 trade references, and bank information including a D&B number if available.

Please allow up to 5 days to establish an account.

Terms: Net 30 days from date of invoice (credit must be approved first)

Shipping Terms: FOB shipping point Hauppauge, New York. Orders are shipped UPS ground unless requested otherwise. (Exceptions: Packages over 80 lbs may be shipped by common carrier.)

RETURNS: Non Defective Items

Standard items may be returned within 15 days from date of invoice. A return authorization number must be issued from Thread Check prior to return and items must be returned within 6 days from RA number issue. A 15% restocking charge is assessed on returns of standard product. Upon inspection, credit will be given on standard items returned in resalable (like new) condition and charges for freight out. Special items may not be returned.

Thread Check, Inc. Gage Warranty

Thread Check, Inc. warrants all gages for 30 days from date of shipment if found not to be in tolerance except in cases of customer mishandling. Special gages including special marking are not returnable. Thread Check, Inc. offers no further warranties, expressed or implied and its responsibilities, due to any defects or inaccuracies of the gage or certificate, shall in no event nor for any cause whatsoever exceed the purchase price of the gage.

Prices in catalog are subject to change without notice.



THREADCHECK, INC. MISSION STATEMENT

Thread Check, Inc. Designers and manufacturers of high quality gaging and inspection equipment.

As a dynamic full service gage company we provide a complete line of precision thread gages, plain cylindrical gages, patented 3-wire thread measuring systems, powerful thread engineering software, measuring instruments, cutting tools, and ISO 17025 registered calibration services. We are also delighted to provide specialized technical support to our customers free of charge.

Our Mission:

Thread Check, Inc. is committed to delivering total customer satisfaction by providing high quality products and superior service levels. Through a highly skilled and dedicated workforce we have generated an outstanding service record, which means you can be assured all our high quality products will accurately meet agreed specifications. Additionally, our Customer Service Team is always on hand with expert support and innovative solutions that we guarantee will surpass your expectations.

Thread Check, Inc. is proud to be considered a valuable vendor to a diverse group of customers in industries such as aerospace, automotive, pharmaceutical, petroleum, medical and mechanical contracting. We also provide quality support to educational and scientific institutions, the military and other government bodies.

We invite you to uniquely experience our total customer satisfaction guarantee.

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TECHNICAL: Basic Screw Thread Designations		
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ISO REGISTERED CALIBRATION SERVICES

All calibrations are performed by an ISO 9001 and ISO 17025 Accredited Metrology Facility.

Standard turnaround for calibration of in service (used) items approximately 2-3 days.

Turnaround on repair items approximately 10 working days.

Prices include level 4 certification traceable to NIST.

Calibration includes disassembly, cleaning, and minor adjustments.

Inquire about gages not listed.

TCI offers online calibration management services.

On - Site Calibration Services Available.

Call **800-767-7633** for pricing and lead time.

HARD GAGE CALIBRATION

Angle Gages Gear Wires Pin Gages **Taper Gages** Tapered Thread Plugs & Rings Calibration Balls Kalmasters **Protractors** Cylindrical Plugs Length Standards Radius Gages Thread Plugs and Set Plugs Cylindrical Rings Levels Screw Pitch Gages Thread Rings Cylindrical Squares Masterdiscs Spline Gages **Thread Wires Deltronic Plugs** Squares **Dimensional Inspection** Mike Masters Feeler Gages Optical Flats Steel Rules Gage Blocks Parallels Tape Measures

ELECTRONIC CALIBRATION AND FIELD SERVICE

Air Gages **Decade Resistors** Glass Thermometers Pressure Gages Surface Plates **Analog Meters Deadweight Testers** Hardness Testers **Profilometers Tachometers Ammeters Digital Multimeters Hvarometers** Resistors Thermal Couples **Barometers** Digital Readouts **Hypot Testers** Scales/Balances **RTD Thermometers Bridges Durometers** LCR Meters Scopemeters **Temp Controllers Cable Tensiometers Durometer Specimen** Load Cells Shunts **Torque Testers** Capacitance Meters **Dynamometers Optical Comparator** Signal Generators **Torque Analyzers** Oscilloscopes **Torque Wrenches Conductance Meters** Film Thickness Solder Guns Contracers Ovens Vacuum Gages Force Gages Stop Watches Clamp-on Meters Frequency Counters Panel Meters Strip/Chart/XY Rec Watt Meters CMM's **Function Generators** Stroboscopes Z Meters PH Meters **Data Loggers** Gauge Amps **Power Supplies** Supermicrometers

REPAIR & HAND TOOL CALIBRATION

Bench Centers Chamfer Check Gages **Groove Gages** Indicators **Bore Gages** Plug & Ring Repair **Height Gages Inside Micrometers Depth Micrometers** Calipers **Height Set Masters Outside Micrometers** Dial Depth Gages Calipers (Depth) **Holtest Gages** Pitch Micrometers Calipers (ID) Dial Snap Gages **Indicator Calibration** Snap Gages

THREAD CHECK'S PRODUCTS AND SERVICES

- Precision Thread Gages
- ThreadTech V2.24 Software
- Machine Tools
- Sales, Service and Calibration
- Thread Measuring Systems
- Measuring Instruments
- Metrology & Industrial Supply
- Mitutoyo Measuring Instruments
- SPI-Swiss Precision Instruments Starrett Measuring Instruments
- Plain Plugs & Rings
- Custom Gages
- Precision Machining & Grinding
- Calibration Services
- Mahr Federal Measuring Instruments

THREAD GAGES

Thread Plug Gages Thread Ring Gages **Thread Setting Plugs**

ACME Gages

API Gages

AMO Gages

ANPT Gages

Asymetric Gages

Buttress Gages

British Gages

DIN Gages

JIS Gages Metric Gages

NPT / NPTF / NPTS / NPSM

STI Helical Coil Gages

Unified Gages

Whitworth Gages

Taperlock and Reversible

Specials

Pre-Plate / Multiple Start

Left Hand

Solid Thread Ring Gages

Flexible Hole Location Gages

3-WIRE THREAD **MEASURING SYSTEMS**

Thread Measuring Wires Gear Measuring Wires

Internal & External Variable Gaging Systems

TRI-ROLL GAGING SYSTEMS

THREAD ENGINEERING SOFTWARE

MEASURING INSTRUMENTS

Mitutoyo Precision Measuring Instruments

Brown & Sharpe Metrology Equipment Starrett Precision Measuring Instruments

Flexbar Measuring Instruments

Fowler Measuring Instruments

Mahr/Federal Precision Measuring Instruments

Phase II Precision Tools & Measuring Instruments

REFERENCE PUBLICATIONS

PRODUCTION TURNING AND MILLING

PLAIN CYLINDRICAL GAGES

ZZ - XXXX Gagemaker Tolerances Gages in Steel, Chrome, and Carbide Plug and Ring Gages

Taperlock / Trilock / Reversible Gages

ZZ Pin Gage Sets

Progressive Gages

Tapered Ring and Plug Gages

Square and Hex Plug Gages

Flush Pin Gages

Concentricity Gages

Special Purpose Gages Ball Gages

Master Rolls

Ruby Ball Contacts

AGD SNAP LIMIT GAGES

HARDNESS TESTING EQUIPMENT **AND SUPPLIES**

TOROUE GAGES AND SYSTEMS

DRILLS AND REAMERS

Jobber Length Drills- General Purpose, Heavy Duty, Fast Spiral, Cobalt, Coated, Bright Finish, Parabolic Screw Machine Length Drills Extra Length Drills

Aircraft Extension Drills

Taper Length Drills

Taper Shank Drills

Silver and Deming Drills

Core Drills

Spotting Drills, Centering Drills, Combined Drills and Countersinks,

Short Length

Carbide Tipped Masonry Drills

Screw Extractors

Carbide Drills

Jobber Length Drill Sets

Chucking Reamers

Taper Reamers

Taper Pipe Reamers

Taper Pin Reamers

Special Reamers

END MILLS

Assorted Styles, Sizes, and Materials

SCREW MACHINE PRODUCTS

Thread Ring & Plug Gages Plain Ring & Plug Gages **Precision Hand Tools**

ISO 17025 and ISO 9002

Registered Calibration

1 - 3 Day turnaround

Gage Blocks

Thread Measuring Wires

Mechanical Gages

Dimensional Inspection

Electronic Calibration and Field Service

Repair Service

TAPS

Taper Taps, Semi-Bottoming Taps

CNC Forming Taps

Metric Taps

Nut Taps

Short Projection Pipe Taps

Coolant Fed (oil-hole) Taps

Taps For Non-Metallics

Combination Tap & Drill Combination Tap & Reamer

Piloted Taps

Shell Taps

ACME Taps

Pipe Taps

Plug Taps

Special Taps

High Performance Taps

Hand Taps

Spiral Pointed Taps

Spiral Fluted Taps

Maintenance Taps

British Taps

DIN Standard Taps



Hexagon Rethreading Dies- Carbon Steel

Metric Rethreading Dies

Round Adjustable Dies Solid Round Dies

Collect Caps

Die Stocks

Tap Wrenches

Tap and Die Sets Tap and Drill Sets







Thread Check. Inc. provides **Chrome Plating** on standard stock thread working plug gages at no additional charge. **Chrome Plating** extends the wear life by more than 100%, which provides dramatic savings on replacement costs



REVERSIBLE STYLE

Carbide, TIN coat and Ceramic thread gages priced on request.

All Thread Check, Inc., gages are made to the high end of the tolerance to ensure longer gage life.



ThreadTech™V2.24 for Windows. The most complete and accurate screw thread program. See back cover.

THREAD PLUG GAGES—CHROME

Size Dic. Fuc. UNE UNE WEY ENERGY Sessionary Count NO GO/MOCO GO/M	TH	HREADS PER INCH (TPI)			TAPERLOCK DESIGN			REVERSIBLE DESIGN			
SITE Dec. File. UNE UNE WINE MEMBER ASSEMILY ONLY WINE MEMBER ASSEMILY ONLY ONLY				(,							
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1.099	.073	#1	64	72		39.00	87.00	9.00	52.00	115.00	11.00
1.112	.086	#2	56	64		39.00	87.00	9.00	52.00	115.00	11.00
1.125	.099	#3	48	56		37.00	82.00	9.00	48.00	107.00	11.00
1.138	.112	#4	40	48		32.00	73.00	9.00	47.00	105.00	11.00
1.164	.125	#5	40	44		29.00	67.00	9.00	42.00	95.00	11.00
1.90	.138	#6	32	40		29.00	67.00	9.00	42.00	95.00	11.00
1.216	.164	#8	32	36		29.00	67.00	9.00	42.00	95.00	11.00
1.216	.190	#10	24	32		29.00	67.00	9.00	42.00	95.00	11.00
1.250	.216	#12	24	28		29.00	67.00	9.00	42.00	95.00	11.00
1.250	.216	#12			32	42.00	93.00	9.00	59.00	129.00	11.00
3125 5/16 18 24 27.00 63.00 9.00 38.00 87.00 11.00	.250	1/4	20	28		26.00	61.00	9.00	38.00	87.00	11.00
3125 5/16 32 45.00 99.00 9.00 57.00 125.00 11.00	.250	1/4			32	44.00	92.00	9.00	57.00	125.00	11.00
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1.125 1-1/8 18 78.00 167.00 11.00 - - - 1.1875 1-3/16 12 18 85.00 181.00 11.00 - - - 1.250 1-1/4 7 12 72.00 155.00 11.00 - - - 1.250 1-1/4 18 81.00 173.00 11.00 - - - 1.3125 1-5/16 12 18 91.00 193.00 11.00 - - - 1.375 1-3/8 6 12 75.00 161.00 11.00 - - - 1.4375 1-7/16 12 18 98.00 207.00 11.00 - - - 1.500 1-1/2 6 12 85.00 181.00 11.00 - - -	1.0625	1-1/16		12	18	77.00	165.00	11.00	-	_	_
1.125 1-1/8 18 78.00 167.00 11.00 - - - 1.1875 1-3/16 12 18 85.00 181.00 11.00 - - - 1.250 1-1/4 7 12 72.00 155.00 11.00 - - - 1.250 1-1/4 18 81.00 173.00 11.00 - - - 1.3125 1-5/16 12 18 91.00 193.00 11.00 - - - 1.375 1-3/8 6 12 75.00 161.00 11.00 - - - 1.4375 1-7/16 12 18 98.00 207.00 11.00 - - - 1.500 1-1/2 6 12 85.00 181.00 11.00 - - -	1.125	1-1/8	7	12		61.00	133.00	11.00	_	_	_
1.250 1-1/4 7 12 72.00 155.00 11.00 -	1.125	1-1/8			18	78.00	167.00	11.00	-	_	_
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1.3125 1-5/16 12 18 91.00 193.00 11.00 - - - - 1.375 1-3/8 6 12 75.00 161.00 11.00 - - - 1.375 1-3/8 18 97.00 205.00 11.00 - - - 1.4375 1-7/16 12 18 98.00 207.00 11.00 - - - 1.500 1-1/2 6 12 85.00 181.00 11.00 - - -	1.250	1-1/4	7	12		72.00	155.00	11.00	-	_	_
1.3125 1-5/16 12 18 91.00 193.00 11.00 - - - - 1.375 1-3/8 6 12 75.00 161.00 11.00 - - - 1.375 1-3/8 18 97.00 205.00 11.00 - - - 1.4375 1-7/16 12 18 98.00 207.00 11.00 - - - 1.500 1-1/2 6 12 85.00 181.00 11.00 - - -	1.250	1-1/4			18	81.00	173.00	11.00	_	_	_
1.375 1-3/8 6 12 75.00 161.00 11.00 - - - - 1.375 1-3/8 18 97.00 205.00 11.00 - - - 1.4375 1-7/16 12 18 98.00 207.00 11.00 - - - 1.500 1-1/2 6 12 85.00 181.00 11.00 - - -		1-5/16		12		91.00			_	_	_
1.375 1-3/8 18 97.00 205.00 11.00 - - - 1.4375 1-7/16 12 18 98.00 207.00 11.00 - - - 1.500 1-1/2 6 12 85.00 181.00 11.00 - - -	1.375		6	12			161.00		-	_	-
1.4375 1-7/16 12 18 98.00 207.00 11.00 - - - - 1.500 1-1/2 6 12 85.00 181.00 11.00 - - - -					18		205.00	11.00	_	_	_
1.500 1-1/2 6 12 85.00 181.00 11.00	1.4375			12				11.00	-	_	_
			6	12					_	_	-
	1.500	1-1/2			18	103.00	207.00	11.00	_	_	_

Long Form Calibration - add \$13.00 per gage member.

AGD Taperlock and Reversible Styles Unified Thread Series (UNC-UNF-UNEF)

Standard (ANSI/ASME B1.2) 'X' Tolerance Class 2B or 3B Special gages including preplates, multiple lead, ACME, Buttress, extra length, etc. are priced promptly on request.

UNJ THREADS: NO EXTRA CHARGE

THREAD RING GAGES & THREAD SET PLUGS

TH	IREADS F	OS PER INCH (TPI) AGD THREAD RING GAGES TRUNCATED SETTING PLUGS								
SIZE Dec.	Frac.	UNC	UNF	UNEF	GO MEMBER Class 2A,3A	NO GO MEMBER Class 2A,3A	HOLDER ONLY	GO or NO GO MEMBERS Class 2A,3A NO GO Class 2A,3A	COMPLETE GO/NOGO W/HANDLE ASSEMBLY	HANDLE ONLY
.060	#0		80		\$133.00	\$133.00	\$15.00	\$78.00	\$165.00	\$9.00
.073	#1	64	72		126.00	126.00	15.00	78.00	165.00	9.00
.086	#2	56	64		105.00	105.00	15.00	78.00	165.00	9.00
.099	#3	48	56		105.00	105.00	15.00	78.00	165.00	9.00
.112	#4	40	48		95.00	95.00	15.00	72.00	153.00	9.00
.125	#5	40	44		83.00	83.00	15.00	67.00	143.00	9.00
.138	#6	32	40		83.00	83.00	15.00	67.00	143.00	9.00
.164	#8	32	36		80.00	80.00	15.00	67.00	143.00	9.00
.190	#10	24	32		80.00	80.00	15.00	67.00	143.00	9.00
.216	#12	24	28		80.00	80.00	15.00	70.00	149.00	9.00
.216	#12			32	103.00	103.00	15.00	85.00	179.00	9.00
.250	1/4	20	28		80.00	80.00	15.00	61.00	131.00	9.00
.250	1/4			32	103.00	103.00	15.00	85.00	179.00	9.00
.3125	5/16	18	24		80.00	80.00	15.00	59.00	127.00	9.00
.3125	5/16			32	103.00	103.00	15.00	85.00	179.00	9.00
.375	3/8	16	24		80.00	80.00	19.00	61.00	131.00	9.00
.375	3/8			32	105.00	105.00	19.00	98.00	205.00	9.00
.4375	7/16	14	20		83.00	83.00	19.00	65.00	139.00	9.00
.4375	7/16			28	105.00	105.00	19.00	98.00	205.00	9.00
.500	1/2	13	20		87.00	87.00	19.00	67.00	143.00	9.00
.500	1/2			28	105.00	105.00	19.00	108.00	225.00	9.00
.5625	9/16	12	18		100.00	100.00	22.00	75.00	159.00	9.00
.5625	9/16			24	113.00	113.00	22.00	115.00	239.00	9.00
.625	5/8	11	18		100.00	100.00	22.00	80.00	169.00	9.00
.625	5/8			24	120.00	120.00	22.00	117.00	243.00	9.00
.6875	11/16			24	115.00	115.00	22.00	125.00	259.00	9.00
.750	3/4	10	16		126.00	126.00	22.00	92.00	193.00	9.00
.750	3/4			20	150.00	150.00	22.00	117.00	243.00	9.00
.8125	13/16			20	153.00	153.00	22.00	130.00	269.00	9.00
.875	7/8	9	14		137.00	137.00	28.00	107.00	223.00	9.00
.875	7/8			20	155.00	155.00	28.00	134.00	277.00	9.00
.9375	15/16			20	155.00	155.00	28.00	136.00	281.00	9.00
1.000	1	8	12,14		163.00	163.00	28.00	124.00	257.00	9.00
1.000	1			20	180.00	180.00	28.00	143.00	295.00	9.00
1.0625	1-1/16		12	18	185.00	185.00	28.00	143.00	295.00	9.00
1.125	1-1/8	7	12		200.00	200.00	28.00	143.00	295.00	9.00
1.125	1-1/8			18	200.00	200.00	28.00	151.00	311.00	9.00
1.1875	1-3/16		12	18	210.00	210.00	28.00	153.00	316.00	10.00
1.250	1-1/4	7	12		210.00	210.00	36.00	153.00	316.00	10.00
1.250	1- 1/4			18	210.00	210.00	36.00	176.00	362.00	10.00
1.3125	1-5/16		12	18	220.00	220.00	36.00	183.00	376.00	10.00
1.375	1-3/8	6	12		215.00	215.00	36.00	183.00	376.00	10.00
1.375	1-3/8			18	230.00	230.00	36.00	188.00	386.00	10.00
1.4375	1-7/16		12	18	235.00	235.00	36.00	192.00	394.00	10.00
1.500	1-1/2	6	12		240.00	240.00	36.00	183.00	376.00	10.00
1.500	1-1/2			18	250.00	250.00	36.00	192.00	394.00	10.00

Long Form Calibration - add \$13.00 per gage member.

AGD Adjustable Thread Ring Gages and Set Plugs Unified Thread Series (UNC-UNF-UNEF)

Standard (ANSI/ASME B1.2) 'X' Tolerance Class 2A or 3A Thread Check, Inc., Thread Set Plugs are class "X" tolerance on pitch diameter and class "W" tolerance on lead and flank angle. For class "W" tolerance - add 25%.

Special gages including preplates, multiple lead, ACME, Buttress, extra length, etc. are priced on request. UNJ THREADS: ADD \$35. TO GO MEMBER



Chrome thread gages priced on request.

All Thread Check, Inc., gages are made to the high end of the tolerance to ensure longer gage life.

SETTING THREAD RING GAGES

Use thread setting plugs to calibrate and properly set adjustable thread ring gages. Adjustable Thread rings can only be calibrated by this method.

Truncated thread setplugs have a thread with both a truncated and a full form thread for both the go and the no go member. The full form section inspects and sets the correct clearance and forms at the major diameter of the ring gage. The truncated section controls pitch diameter. A thread ring gage should be set on the full form portion of the setplug – the back portion. The ring is then turned onto the truncated portion and should have the same drag and fit as when turned through the full form. A ring gage which spins quickly through the truncated section or "shakes" usually indicates wear. The ring gage should be repaired by relapping if possible or replaced. See technical page 44 on the Evaluations of and procedure for calibrating thread ring gages with thread set plugs.



Root Relieved **Thread** Ring Gages

All Thread Check thread ring gages are root relieved for longer life and more accurate gaging. The gages are manufactured with a root clearance in the major diameter eliminates the possibility of interference from the full form section of the thread setting plug and major diameter of the part being gaged. This feature assures that the thread flanks are making proper contact.



METRIC THREAD PLUG GAGES—CHROME



TAPERLOCK STYLE 6H Tolerance



CHROME

Thread Check. Inc. provides **Chrome Plating** on standard stock thread working plug gages at no additional charge. **Chrome Plating** extends the wear life by more than 100%, which provides dramatic savings on replacement costs

REVERSIBLE STYLE 6H Tolerance

Carbide, TIN coat and Ceramic thread gages priced on request.

All Thread Check, Inc., gages are made to the high end of the tolerance to ensure longer gage life.



ThreadTech™V2.24 for Windows. The most complete and accurate screw thread program. See back cover.

NOMINAL SIZE & PITCH TAPERLOCK DESIGN REVERSIBLE DESIGN GO or NO GO or NO **GO 6H COMPLETE HANDLE GO 6H COMPLETE HANDLE** SIZE MM **COARSE** FINE **MEMBER** D.E.GAGE ONLY MEMBER D.E.GAGE ONLY M1.6 \$43.00 \$95.00 \$9.00 \$59.00 \$127.00 \$9.00 .35 .35 43.00 95.00 59.00 127.00 9.00 M1.8 9.00 .40 43.00 123.00 9.00 M2 95.00 9.00 57.00 M2.2 .45 43.00 95.00 9.00 57.00 123.00 9.00 M2.5 .45 40.00 89.00 9.00 57.00 123.00 9.00 M3 .50 40.00 89.00 9.00 57.00 123.00 9.00 M3.5 .60 40.00 89.00 9.00 51.00 111.00 9.00 M4 .70 38.00 85.00 9.00 45.00 99.00 9.00 M4.5 .75 38.00 85.00 9.00 45.00 99.00 9.00 M5 .80 38.00 85.00 9.00 48.00 105.00 9.00 M6 1.0 31.00 71.00 9.00 36.00 81.00 9.00 M7 1.0 31.00 71.00 9.00 38.00 85.00 9.00 **M8** 1.25 1.0 31.00 71.00 9.00 39.00 88.00 10.00 M10 31.00 71.00 9.00 40.00 90.00 10.00 1.5 1.25 M12 1.0 75.00 159.00 9.00 95.00 202.00 12.00 M12 1.5 33.00 75.00 9.00 42.00 94.00 10.00 M12 1.75 33.00 79.00 9.00 42.00 94.00 10.00 1.25 M14 2.0 1.5 36.00 81.00 9.00 43.00 99.00 13.00 9.00 107.00 15.00 M16 2.0 1.5 38.00 85.00 46.00 M18 2.5 1.5 43.00 95.00 9.00 54.00 123.00 15.00 M20 2.5 1.5 45.00 99.00 9.00 NA NA NA M22 2.5 1.5 45.00 98.00 8.00 NA NA NA M24 3.0 2.0 51.00 111.00 9.00 NA NA NA M27 3.0 2.0 68.00 145.00 9.00 NA NA NA M30 3.5 2.0 84.00 178.00 10.00 NA NA NA M33 3.5 2.0 84.00 178.00 10.00 NA NA NA M36 4.0 3.0 102.00 214.00 10.00 NA NA NA M39 4.0 3.0 108.00 230.00 14.00 NA NA NA

Long Form Calibration - add \$13.00 per gage member.

Thread Check, Inc. metric thread gages conform to ANSI/ASME B1.16M gage standard and/or H28 handbook. Special gages including preplates, multiple lead, extra length, etc. are priced on request.

METRIC THREAD RING & SET PLUG GAGES

NOMIN	IAL SIZE		METR	METRIC RING GAGES		METRIC SET PLUGS		
SIZE MM	COARSE	FINE	GO MEMBER Class 6g	NO GO MEMBER 6g	HOLDER ONLY	GO or NO GO MEMBER 6g	COMPLETE GO/NO GO W/HANDLE ASSEMBLY	
M1.6	.35		\$145.00	\$145.00	\$13.00	\$93.00	\$195.00	\$9.00
M1.8	.35		145.00	145.00	13.00	93.00	195.00	9.00
M2	.40		120.00	120.00	13.00	88.00	185.00	9.00
M2.2	.45		120.00	120.00	13.00	88.00	185.00	9.00
M2.5	.45		120.00	120.00	13.00	88.00	185.00	9.00
М3	.5		105.00	105.00	13.00	85.00	179.00	9.00
M3.5	.6		105.00	105.00	13.00	85.00	179.00	9.00
M4	.7		95.00	95.00	13.00	80.00	169.00	9.00
M4.5	.75		100.00	100.00	13.00	80.00	169.00	9.00
M5	.8		100.00	100.00	13.00	80.00	169.00	9.00
M6	1.0		90.00	90.00	13.00	72.00	153.00	9.00
M7	1.0		90.00	90.00	13.00	72.00	153.00	9.00
M8	1.25	1	90.00	90.00	13.00	72.00	153.00	9.00
M10	1.5	1.25	95.00	95.00	17.00	77.00	163.00	9.00
M12		1.0	200.00	200.00	17.00	95.00	199.00	9.00
M12	1.5		98.00	98.00	17.00	77.00	163.00	9.00
M12	1.75	1.25	110.00	110.00	17.00	81.00	171.00	9.00
M14	2.0	1.5	115.00	115.00	21.00	89.00	187.00	9.00
M16	2.0	1.5	115.00	115.00	21.00	89.00	187.00	9.00
M18	2.5	1.5	155.00	155.00	21.00	97.00	203.00	9.00
M20	2.5	1.5	185.00	185.00	21.00	103.00	215.00	9.00
M22	2.5	1.5	185.00	185.00	26.00	140.00	289.00	9.00
M24	3.0	2	215.00	215.00	26.00	140.00	289.00	9.00
M27	3.0	2	230.00	230.00	26.00	148.00	305.00	9.00
M30	3.5	2	235.00	235.00	31.00	156.00	321.00	10.00
M33	3.5	2	255.00	255.00	31.00	163.00	336.00	10.00
M36	4.0	3	285.00	285.00	31.00	178.00	366.00	10.00

Long Form Calibration - add \$13.00 per gage member.

Thread Check metric thread gages conform to ANSI/ASME B1.16M gage standard and/or H28 handbook. Special gages including preplates, multiple lead, extra length, etc. are priced on request. Thread Check, Inc., Thread Set Plugs are class "X" tolerance on pitch diameter and class "W" tolerance on lead and flank angle. For class "W" tolerance - add 25%. MJ THREADS: ADD \$35 TO GO MEMBER



METRIC THREAD PLUG GAGES 6g Tolerance

All Thread Check, Inc., gages are made to the high end of the tolerance to ensure longer gage life.

SETTING THREAD RING GAGES

Use thread setting plugs to calibrate and properly set adjustable thread ring gages. Adjustable Thread rings can only be calibrated by this method.

Truncated thread setplugs have a thread with both a truncated and a full form thread for both the go and the no go member. The full form section inspects and sets the correct clearance and forms at the major diameter of the ring gage. The truncated section controls pitch diameter. A thread ring gage should be set on the full form portion of the setplug - the back portion. The ring is then turned onto the truncated portion and should have the same drag and fit as when turned through the full form. A ring gage which spins quickly through the truncated section or "shakes" usually indicates wear. The ring gage should be repaired by relapping if possible or replaced. See technical page 44 on the Evaluations of and procedure for calibrating thread ring gages with



Root Relieved **Thread** Ring Gages

All Thread Check thread ring gages are root relieved for longer life and more accurate gaging. The gages are manufactured with a root clearance in the major diameter which eliminates the possibility of interference from the full form section of the thread setting plug and major diameter of the part being gaged. This feature assures that the thread flanks are making proper contact.



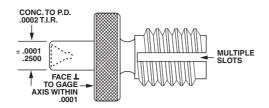
Inch Flexible Hole **Location Gages** SIZE UNC UNF **PRICE** \$100.00 n 80 64 72 98.00 1 2 56 64 98.00 3 48 56 93.00 4 40 48 85.00 5 40 44 85.00 32 85.00 6 40 8 32 36 85.00 10 24 32 85.00 12 24 28 85.00 1/4 20 28 85.00 73.00 5/16 18 24 78.00 3/8 16 24 78.00 7/16 14 20 1/2 13 20 85.00 9/16 12 18 80.00 5/8 11 18 85.00 16 85.00 3/4 10 12 145.00 8

Metric Flexible Hole

Location	Gages
SIZE	PRICE
M1.6 x .35	\$110.00
M2 x 0.4	110.00
M2.5 x 0.45	110.00
M3 x 0.5	100.00
M3.5 x 0.6	100.00
M4 x 0.7	97.00
M5 x 0.8	92.00
M6 x 1.0	85.00
M8 x 1.25	85.00
M8 x 1.0	85.00
M10 x 1.5	85.00
M10 x 1.25	91.00
M10 x .75	91.00
M12 x 1.75	98.00
M12 x 1.5	98.00
M12 x 1.25	98.00
M12 x 1.0	98.00
M14 x 2.0	105.00
M14 x 1.5	105.00
M15 x 1.0	105.00
M16 x 2.0	105.00
M16 x 1.5	105.00
M17 x 1.0	112.00
M18 x 1.5	112.00
M20 x 2.5	114.00
M20 x 1.5	114.00
M20 x 1.0	114.00
M22 x 2.5	123.00
M22 x 1.5	123.00
M24 x 3.0	135.00
M24 x 2.0	135.00
Sizos #10 (ME Mot	ric) and emaller

Sizes #10 (M5 Metric) and smaller are solid tapered thread form from low limit to high limit of class 2B pitch diameters.

FLEXIBLE HOLE LOCATION GAGES



Flexible Hole Location Gage plugs also referred to as Centerline Hole Location Plugs are used to determine the true centerline to centerline distances of threaded holes. The Flexible Hole Location Gage is slotted at 90° increments to insure positive location on the thread flanks regardless of hole size. This feature provides a firm locating grip without pulling the shoulder of the plug up against the hole face thus avoiding any squareness error being transferred to the centerline measurement.

- Positive grip on flanks regardless of hole size
- Center is concentric with threaded section within .0002" T.I.R. for probe location of coordinate measuring machines
- The .2500 +/- .0001(6.35mm +/- .0025mm) shank is concentric to the threaded section within .0002 T.I.R. prior to slotting and may be used with micrometers or plate inspection setups as "overpin" measurement.
- Used with vee-block, concentricity checks can be made with other diameters.

FLEXIBLE HOLE LOCATION GAGE SETS

2 each of #1-64 thru 5-40 Unified (Coarse Pitches)
with case\$1,140
2 each of #6-32 thru 3/8-16 Unified (Coarse
Pitches) with case
2 each of #6-32 thru 1/2-13 Unified (Coarse
Pitches) with case
Complete set of 2 each from 9/16-12 thru 1-12
Unified (Coarse Pitches) and Unified Fine
with case
2 each of #0-80 thru #5-44 Unified (Fine Pitches)
with case
2 each of #6-40 thru 3/8-24 Unified (Fine Pitches)
with case
2 each of #6-40 thru 1/2-20 Unified (Fine Pitches)
with case
Complete set of 2 each from #0-80 thru 1/2-20
Unified (Coarse Pitches) and Unified (Fine Pitches)
with case

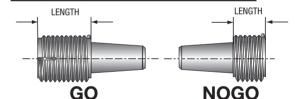
Long Form Calibration - add \$13.00 per gage member.

S.T.I. THREAD PLUG GAGES



CHROME

S.T.I. THREAD PLUG GAGES ("HELICAL COIL" CLASS X TAPERLOCK) GO or NOGO PITCH PITCH D/E w/ SIZE UNC UNF MEMBER HANDLE HANDLE #2 56 \$46.00 \$101.00 \$9.00 46.00 #3 48 56 101.00 9.00 #4 40 48 40.00 89.00 9.00 #5 40 NA 40.00 89.00 9.00 32 40.00 89.00 9.00 #6 40 #8 32 36 39.00 87.00 9.00 #10 24 32 39.00 87.00 9.00 24 39.00 9.00 #12 NA 87.00 1/4 20 28 37.00 83.00 9.00 5/16 18 24 37.00 83.00 9.00 16 24 37.00 83.00 9.00 3/8 7/16 14 20 39.00 87.00 9.00 91.00 1/2 13 20 41.00 9.00 9/16 12 18 49.00 107.00 9.00 5/8 11 18 49.00 107.00 9.00



52.00

113.00

9.00

3/4

10

16

GAGE BLANK LENGTH DIMENSIONS

S.T.I. THREAD PLUG GAGES ("HELICAL COIL" CLASS X TAPERLOCK)

("UEL	("HELICAL CUIL" CLASS X TAPERLUCK)				
			LEN	GTH	
SIZE	PITCH UNC	PITCH Unf	GO	NO GO	
#2	56	NA	5/16	7/32	
#3	48	56	5/16	7/32	
#4	40	48	5/16	7/32	
#5	40	NA	5/16	7/32	
#6	32	40	13/32	9/32	
#8	32	36	13/32	9/32	
#10	24	32	1/2	5/16	
#12	24	NA	1/2	5/16	
1/4	20	28	1/2	5/16	
5/16	18	24	3/4	3/8	
3/8	16	24	3/4	3/8	
7/16	14	20	7/8	1/2	
1/2	13	20	7/8	1/2	
9/16	12	18	7/8	1/2	
5/8	11	18	7/8	1/2	
3/4	10	16	1	5/8	

BRITISH GAGES

BSPT TAPER SCREW THREAD PLUG AND RING GAGES

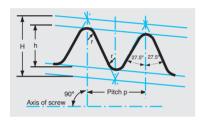
Gages for testing pipe threads where pressure tight joints are made on the threads to BS 21: 1985, and ISO 7/2 1982.

BS 21 specifies requirements of pipe threads for joints made pressure tight by the mating of threads, and are taper external, taper internal, parallel external and parallel internal threads.

The thread form is based on the Whitworth profile. The taper is 1:16 on diameter, normal to the axis.

Please note that ISO-7-2:2000(E) specifies that the external taper product thread is gauged by using a parallel full form threaded ring gage and a tapered plain ring gage respectively.

ISO 7/2 are different in design and have different gage manufacture limits than BS21.



TO BS21 & ISO 7/2 1982 ALSO AVAILABLE FOR ISO 7/2 2000 AVAILABLE AS:

- Taper Screw "Rc" Plug • Taper Screw "R" Ring
 - Taper Plain Plug

 CALL FOR PRICES

SIZES
1/16 X 28
1/8 X 28
1/4 X 19
3/8 X 19
1/2 X 14
5/8 X 14
3/4 X 14
1 X 11
1 1/8 X 11
1 1/4 X 11
1 1/2 X 11
2 X 11
2 1/2 X 11
3 X 11
3 1/2 X 11
4 X 11
5 X 11
6 X 11

BA SCREW THREAD GAGES

TO BS93 & BS 919
PLUGS & RINGS TO NORMAL CLASS

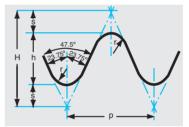
- End only Go or NoGo Screw Plug • Double End Go or NoGo Screw Plug w/handle
 - Screw Ring Gage Go or NoGo

CALL FOR PRICES

SIZES	
BA	
0	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

Gages for testing threads having a full form BA profile are manufactured to BS 93: 1951, and BS 919: Part 2: 1971.

BS 93 specifies basic information for the British Association thread form, and tabulates diameters for threads from 0BA to 25BA.



 $H = 1.1363365 \times p$ $r = .1808346 \times p$ $h = 0.6 \times p$

 $s = 2681683 \times p$

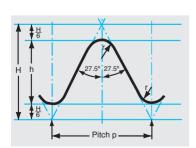
BSF & BSW SCREW THREAD GAGES

Gages for testing parallel threads having a full form Whitworth profile are manufactured to BS 84: 1956, and BS 919: Part 2: 1971.

BS 84 specifies basic information for the Whitworth form, and tabulates diameters for threads designated BSW and BSF.

BSW is a coarse thread series from 1/8" to 6" diameter.

BSF is a fine thread series from 3/16" to 3" diameter.



H = 0.960491p $h = \frac{2}{3} H = 0.640327p$ $\frac{H}{6}$ = 0.160082p r = 0.137329p

TO BS84 & BS 919
PLUGS & RINGS TO MEDIUM CLASS
AVAILABLE AS:

- End only Go or NoGo Screw Plug • Double End Go or NoGo Screw Plug
- Double End Style A Setting Plug
- Screw Ring Gauge Go or NoGo

CALL FOR PRICES

SIZES

BSF	BSW
	1/8 X 40
3/16 X 32	3/16 X 24
1/4 X 26	1/4 X 20
5/16 X 22	5/16 X 18
3/8 X 20	3/8 X 16
7/16 X 18	7/16 X 14
1/2 X 16	1/2 X 12
9/16 X 16	9/16 X 16
5/8 X 14	5/8 X 11
3/4 X 12	3/4 X 10
7/8 X 11	7/8 X 9
1 X 10	1 X 8
1 1/8 X 9	1 1/8 X 7
1 1/4 X 9	1 1/4 X 7
1 3/8 X 8	1 3/8 X 6
1 1/2 X 8	1 1/2 X 6

BSP SCREW THREAD GAGES

TO BS2779* ALSO TO DIN 228 RING GAUGES SUPPLIED IN CLASS A OR B

CALL FOR PRICES

SIZES
G1/8 X 28
G1/4 X 19
G3/8 X 19
G1/2 X 14
G5/8 X 14
G3/4 X 14
G7/8 X 14
G1 X 11
G1 1/8 X 11
G1 1/4 X 11
G1 1/2 X 11
G2 X 11
G2 1/2 X 11
G3 X 11
G3 1/2 X 11
G4 X 11
G5 X 11
G6 X 11

BSP - Parallel Thread - ISO 228, BS 21, DIN 259, DIN 5157. Class A is standard tolerance. Class B is loose or rough tolerance. 55° thread.

^{*} In March 2003 the British Standards Institute withdrew BS-2779 and replaced it with ISO-228 (technically BS-EN-ISO-228). This statement is that all requirements for BS-2779 will now be filled with ISO-228



TAPER PIPE THREAD GAGES

METHOD OF GAGING PRODUCT - NPT

Internal Taper Pipe Threads: The plug gage is screwed up tight by hand into the internal thread of the product. The thread is within the permissible tolerance when the gaging notch of the working plug is not more than plus or minus one turn from being flush with the end of the thread. Fig. 1.

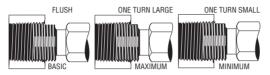
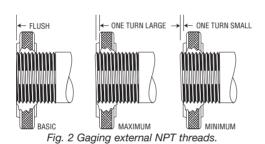


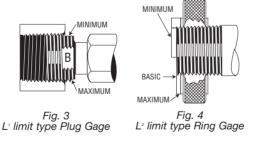
Fig. 1 Gaging internal American National Taper pipe threads with working gage. When the internal thread is chambered, the gaging point shall be the intersection of the chamber and the pitch cone of the thread.

External Taper Pipe Threads: In gaging external taper threads, the ring gage is screwed up tight by hand on the external thread of the product. The thread is within the permissible tolerance when the the gaging face of the working ring is plus or minus one turn from being flush with the end of the thread. Figure 2.



Limit Type Plug and Ring Gages

The limit type gage is used to eliminate counting turns by which the gage over or under travels to the basic surface.



The gages include the basic notch on the plug and the basic surface on the ring and in addition include two notches, or steps, on both plug and ring. One notch is considered the maximum and the other the minimum. The retention of the basic step, or notch, facilitates checking against master and reference gages and provides a means of checking the maximum and minimum steps.

METHOD OF GAGING PRODUCT ANPT AND NPTF

Internal Threads. The internal thread is first gaged with a limit-type L1 taper thread plug gage, and the gaging notch which most nearly represents the size of the thread is noted.

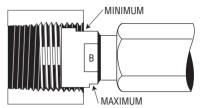


Fig. 5 Checking fitting with L3 thread Plug Gages.

The three product threads beyond the L1 are called the L3 length and are the additional threads which will be engaged when the pipe is tightened with a wrench, or "wrench tight". These threads are next gaged with an L^3 taper thread plug gage. This is also a limit type gage with the length equal to L^1

plus L3, but which has four threads at the small end only. For a thread to be acceptable on an L3 gage, the position of the gaging notch must coincide within 1/2 turn of the

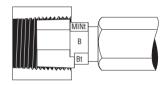


Fig. 6 Checking minor diameter truncation with 6 step plain Plug Gages.

position previously noted on the L1 gage. The L1 and the L3 together check the lead, taper, pitch diameter, and the major diameter.

The minor diameter of internal threads is determined by the amount of truncation of the thread crests. As the truncation and pitch diameter varies within limits, so will the minor diameter vary and for this reason it is customary to refer to minor diameter as at "maximum truncation" or "minimum truncation". There are also 3 pitch diameter gaging positions: basic, minimum, and maximum which necessitates 3 pairs of maximum and minimum truncation steps, or a total of 6 positions.

To gage the minor diameter, a 6 step plain plug gage is always used in connection with the L1 gage. The L1 gage is used as a guide to determine the gaging position. If the basic gage notch is flush with end of the product, the threads are considered to be basic. The plain plug gage used on the same fitting should show the end of the

product at or between the basic maximum and minimum notches.

External Threads: ANPT and NPTF external threads are first gaged with a thin L1 taper thread ring gage. Observe the small end of the gaging face of the ring to the small end of the pipe.



-ıg. / L2 I nıck Ring Gage











TAPER PIPE THREAD GAGES

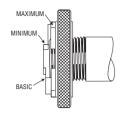


Fig. 8 Checking major diameter truncation with 6 step plain ring gage.

The L2 ring is used to gage the effective external threads beyond the L1 location length. It is relieved by counterboring at the small end to a depth equal to L1 minus 1P. The L2 is used like the thin L1 gage is used with a count of the number of turns by which the product over travels or fails to reach basic. The two gages together inspect the lead, pitch diameter, taper, and minor diameter. When both the L1 and L2 rings are used, the relative position of the small end of the pipe and the basic gaging face of the rings may not vary more than 1/2 turn.

The 6 step plain taper ring gage checks the truncation of the crest at the major diameter. Three of the steps represent the minimum truncation for the basic, maximum and minimum thread sizes - B, MN, MX. The other three represent the corresponding maximum truncation.

The 6 step plain ring is used similar to the 6 step plain plug. The ring is always used with a limit type thin L1 ring gage.











TAPER PIPE THREAD GAGES - NPT AND NPTF









1	
MN	MNT
.acstep	1/2-1/4 NPTF
	U

			NPIF	NPIF	NPIF		NPIF		
	NPT	NPT	PLUGS L1	PLUGS 6	RINGS	NPTF	RINGS 6		
SIZE	PLUG	RING	or L3	STEP PLAIN	L1	RINGS L2	STEP PLAIN	HANDLES	
1/16-27	\$68.00	\$129.00	\$86.00	\$139.00	\$139.00	\$191.00	\$219.00	\$10.00	
1/8-27	50.00	91.00	63.00	139.00	97.00	185.00	219.00	10.00	
1/4-18	56.00	99.00	73.00	139.00	115.00	191.00	219.00	10.00	
3 ₈ -18	62.00	109.00	86.00	139.00	120.00	185.00	219.00	11.00	
1/2-14	69.00	121.00	100.00	139.00	127.00	193.00	219.00	11.00	
3/4-14	80.00	139.00	109.00	146.00	141.00	218.00	244.00	11.00	
1-11½	89.00	160.00	120.00	158.00	164.00	238.00	244.00	11.00	
11/4-111/2	99.00	175.00	132.00	168.00	176.00	258.00	262.00	11.00	
11/2-111/2	112.00	206.00	154.00	184.00	210.00	283.00	299.00	11.00	
2-11 ½	136.00	252.00	181.00	255.00	283.00	328.00	341.00	11.00	
2½-8	165.00	293.00	265.00	393.00	316.00	393.00	405.00	14.00	
3-8	191.00	372.00	297.00	425.00	365.00	464.00	495.00	14.00	
3½-8	295.00	473.00	Priced on Request					16.00	
4-8	320.00	540.00		Priced on Request					
5-8	430.00	645.00		Prio	ed on Requ	est		16.00	
6-8	535.00	761.00		Pric	ed on Requ	est		16.00	

Master gages priced on request. Long form calibration - add \$30. per gage.

TAPER PIPE THREADS - ANPT - WORKING & INSPECTION SAE AS71051 and MIL-G-10944





SIZE	L-1 RING GAGE Basic Step	L-2 RING GAGE BASIC STEP	PLAIN TAPER RING 6 STEP	L-1 PLUG GAGE BASIC STEP	L-3 PLUG GAGE BASIC STEP	PLAIN TAPER PLUG 6 STEP	HANDLE
1/16-27	\$210.00	\$245.00	\$260.00	\$145.00	\$175.00	\$165.00	\$10.00
1/8-27	185.00	225.00	260.00	145.00	175.00	165.00	10.00
1/4-18	180.00	230.00	255.00	145.00	140.00	165.00	10.00
3%-18	180.00	225.00	255.00	135.00	135.00	165.00	10.00
1/2-14	165.00	235.00	255.00	130.00	145.00	165.00	10.00
3/4-14	175.00	255.00	285.00	140.00	145.00	175.00	10.00
1-11½	225.00	280.00	285.00	155.00	175.00	185.00	12.00
11/4-111/2	225.00	295.00	315.00	170.00	175.00	195.00	12.00
1½-11½	245.00	330.00	355.00	175.00	185.00	215.00	12.00
2-11½	345.00	380.00	398.00	215.00	215.00	298.00	12.00
2½-8	375.00	455.00	470.00	325.00	325.00	455.00	15.00
3-8	430.00	539.00	575.00	365.00	365.00	490.00	15.00

Long form calibration - add \$30. per gage.



STRAIGHT PIPE THREAD GAGES

3/4-14 NPSM 2B

NPSM STRAIGHT PIPE RINGS AND SET PLUGS

(ANSI/ASME B1.20.1)

SIZE	P.D. GO 2A	P.D. NOGO 2A	GO or NOGO RING GAGE PER MEMBER	GO&NOGO SET PLUG ASSEMBLY
1/8-27	.3725	.3689	\$222.00	\$229.00
1/4-18	.4903	.4859	208.00	210.00
3%-18	.6256	.6211	208.00	220.00
1/2-14	.7769	.7718	217.00	231.00
3/4-14	.9873	.9820	218.00	262.00
1-11½	1.2369	1.2311	238.00	268.00
11/4-111/2	1.5816	1.5756	279.00	342.00
11/2-111/2	1.8205	1.8144	294.00	364.00
2-11½	2.2944	2.2882	373.00	436.00
21/2-8	2.7600	2.7526	415.00	546.00
3-8	3.3862	3.3786	494.00	598.00

NPSM STRAIGHT PIPE PLUGS

(ANSI/ASME B1.20.1)

SIZE	PITCH DIA. GO MEMBER 2B	PITCH DIA. NOGO MEMBER 2B	GO or NOGO PER MEMBER	HANDLE	GO&NOGO W/HANDLE
1/8-27	.3736	.3783	\$83.00	\$10.00	\$176.00
1/4-18	.4916	.4974	83.00	10.00	176.00
3/ ₈ -18	.6270	.6329	83.00	10.00	176.00
1/2-14	.7784	.7851	93.00	10.00	196.00
3/4-14	.9889	.9958	93.00	10.00	196.00
1-11½	1.2386	1.2462	108.00	10.00	226.00
11/4-111/2	1.5834	1.5912	120.00	10.00	250.00
11/2-111/2	1.8223	1.8302	130.00	10.00	270.00
2-11½	2.2963	2.3044	145.00	10.00	300.00
2½-8	2.7622	2.7720	162.00	10.00	334.00
3-8	3.3885	3.3984	200.00	10.00	410.00

NPSF TAPERLOCK THREAD PLUG GAGES

(ANSI/ASME B1.20.5)



SIZE	P.D. MIN.	P.D. MAX.	GO or NOGO PER MEMBER	HANDLE	GO&NOGO w/HANDLE
1/16-27	.2768	.2803	\$90.00	\$10.00	\$190.00
1/6-27	.3692	.3727	90.00	10.00	190.00
1/4-18	.4852	.4904	90.00	10.00	190.00
3%-18	.6205	.6257	90.00	10.00	190.00
1/2-14	.7700	.7767	100.00	10.00	210.00
3/4-14	.9805	.9872	105.00	10.00	220.00
1-11½	1.2284	1.2365	117.00	10.00	244.00



GAGES REQUIRED TO CHECK OTHER PIPE THREADS

THREAD TYPE	GAGING EXTERNAL PRODUCT THREAD	GAGING INTERNAL PRODUCT THREAD
ANPT	ANPT L1, L2, and Plain 6 Step Ring	ANPT L1, L3, and Plain 6 Step Plug
NPSF	Mates with NPTF External Threads	NPTF L1 Plug Gage
PTF SAE Short	PTF SAE Short L1, and L2 Ring gages	PTF SAE Short L1 and L3 Plug Gages
NPSC	Mates with NPT External Threads	NPT L1 Plug Gage
NPSM	GO / NOGO Thread Ring Gages	GO / NOGO Thread Plug Gages
NPSL	GO / NOGO Thread Ring Gages	GO / NOGO Thread Plug Gages
NPSH	GO / NOGO Thread Ring Gages	GO / NOGO Thread Plug Gages
NH	GO / NOGO Thread Ring Gages	GO / NOGO Thread Plug Gages
BSPT System A	BSPT Thread Ring	BSPT Thread Plug
BSPT System B	BSPT Thread Ring and Plain Ring	BSPT Thread Plug and Ring
BSPP	GO / N0G0Thread Ring	GO / N0G0 Thread Plug
NGT	NGT L1, L8 and Plain 6 Step ring	NGT L1, L9 and Plain 6 Step

API - See page 15.

Gages priced on request.

API (American Petroleum Institute) GAGES



Thread Check, Inc. offers API Thread Gages to Spec Q1, Spec 5B, Spec 7, Spec 11B as well as many other special API gages. Our engineering staff have served on various API gaging subcommitees and would be pleased to assist you with all your custom requirements. Contact 800 767 7633 for assistance.

API Gages are available in Chrome for increased wear life and resistance to corrosion from high humidity and salt spray.

Thread Check is a proud member of the American Petroleum Institute.









	Nominal Size				
		From	To	TPI	TPF
LUG RING)	Casing - Round	4-1/2	20	8	3/4
	Line Pipe	1/8	20	8 - 27	3/4
	Tubing Non Upget	1.050	3-1/2	10	3/4
	Tubing-Non opset	4	4-1/2	8	3/4
핕	Tuhing-Eyternal Uncet	1.050	1.900	10	3/4
. 5B	Tubing-External opset	2-3/8	4-1/2	8	3/4
PE	Tubing-Integral Joint	2-3/8	4-1/2	8	3/4
S	Extreme Line Casing	5	7-5/8	6	1-1/2
		8-5/8	10-3/4	5	1-1/4
		NC 10	NC 16	6	1-1/2
(S)	NC Connections	NC 23	NC 50	4	2
SPECIFICATION APPLICATION RELATED SPEC 7 (PLUG RING)		NC 56	NC 77	4	3
	Regular	1	8-5/8	4 - 6	1-1/2,2,3
	Full Hole	3-1/2	6-5/8	4 - 5	2,3
	Internal Flush	2-3/8	5-1/2	4	2
e 5	H-90	2-3/8	8-5/8	3-1/2	1-1/4,2,3
ELATE	Slim Hole	2-3/8	_	4	2
LD RE	Extra Hole	2-7/8	5	4	2
L FIE	Wide Open	2-3/8	_	4	2
INEC.	AOH	2-3/8	4-1/2	4	1-1/2
E S	PAC	2-3/8	3-1/2	4	1-1/2
	XHole	2-7/8	5	4	2
ධූ <u>ක</u>	Sucker Rods B1 to B8	1/2	1-1/8	10	
S T	Sucker Rods P1 to P8	1/2	1-1/8	10	
ALS	Mining: BECO, D1-22, D	1-42			
SPEC	American National Speci	al Threads			
•	Tapered Thread Gages -	AWWA			
	SPEC OTHER OIL FIELD RELATED SPEC 7 (PLUG RING) SPEC 5B (PLUG RING)	Tubing-Non Upset Tubing-Non Upset Tubing-External Upset Tubing-Integral Joint Extreme Line Casing NC Connections Regular Full Hole Internal Flush H-90 Slim Hole Extra Hole Wide Open AOH PAC XHole Sucker Rods B1 to B8 Sucker Rods P1 to P8 Mining: BECO, D1-22, D: American National Speci	Casing - Round 4-1/2	Casing - Round	Casing - Round 4-1/2 20 8

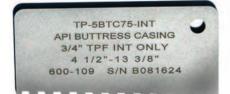


The TP Series of Thread Profile Gages are manufactured to tolerances of ±.0002" using EDM technology. These precision gages are ideal for quickly identifying each of the different thread forms named in the API Std. 5B and Specification 7. Profile gages can also be used to perform a visual inspection of a thread form for detecting chipped inserts, stretched threads, wide first threads, or rolled over threads. Special profiles are available and quoted upon request.









PROFILE GAGES, THREAD PROFILE, TP SERIES

TPF/TPI	Connector Type
Thread Form 1.5" TPF, 4 TPI	2 3/8" – 3 ½" P.A.C. Connections
V-0.076	2 3/0 - 3 /2 1.A.O. OUIIIOCIIOIIS
¾" TPF, 8 TPI 8 Round	API 8 Round Casing, Tube & Drill Type
34" TPF, 10 TPI 10 Round	API 10 — Round Tubing
3/4" TPF, 8 TPI 8 V Thread	8V API Line Pipe American Std. NPR
¾" TPF, 11 ½ TPI 11 ½ V Thread	11 ½ V API Line Pipe, American Std. NPT
34" TPF, 5 TPI	API Buttress Casing, Internal, 4 ½" – 13 3/8"
3/4" TPF, 5 TPI	API Buttress Casing, External, 4 ½" – 13 3/8"
1" TPF, 5 TPI	API Buttress Casing, Internal, 16" – 20"
1" TPF, 5 TPI	API Buttress Casing, External, 16" – 20"
3" TPF, 5 TPI V – 0.040	2 3/8" – 4 ½" API REG 3 ½", 4 ½", API Full Hole
2" TPF, 4 TPI	6 5/8" API REG
V – 0.050	5 ½" & 6 5/8" API Full Hole
3" TPF, 4 TPI V – 0.050	5 1/2:", 7 5/8", & 8 5/8" API REG
2" TPF, 4 TPI	4" API Full Hole,
V – 0.038R	2 7/8" – 5" Hughes Xtra Hole 2 3/8" – 4 ½" Hughes Slim Hole
2" TPF, 4 TPI V – 0.038R	2 3/8" 5 ½" API INT Flush API Numbered Connectors #23 - #50
3" TPF, 4 TPI	API Nullibered Collifectors #25 - #50
V – 0.038R	API Numbered Connectors #56 - #77
1.5" TPF, 6 TPI V – 0.055	API Numbered Connectors #10, #12, #13, #16 M.T. (Macaroni Tubing)
1.5" TPF, 4 TPI V – 0.076	2 3/8" – 4 ½" American Open Hole
2" TPF, 3.5 TPI H – 90	3 ½" – 6 5/8" Hughes H – 90
3" TPF, 3.5 TPI H – 90	7" – 8 5/8" Hughes H – 90
1.25" TPF, 3 TPI H – 90	2 3/8" – 3 ½" Hughes Slim Line
Tool Grinding & Setting Gage	90° & 60°Threads, Tool Grinding & Setting Gage
¾" TPF, 14 TPI	NPT Threads

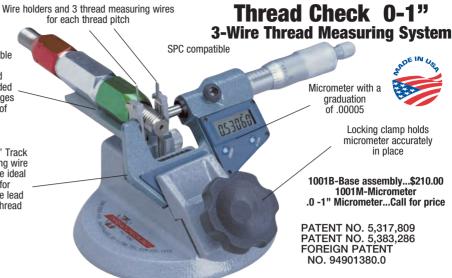
3-Wire Thread Measuring Systems

Thread measuring holders and wires available for a wide selection of measuring instruments.



Vertically Adjustable Platform for positioning and supporting threaded parts and plug gages between anvils of micrometer

> Exclusive "U" Track for maintaining wire holders in the ideal position for engaging the lead angle of a thread

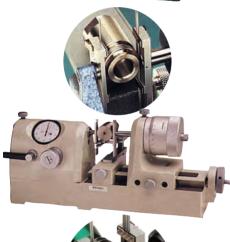


Micrometer with a graduation of 00005

> Locking clamp holds micrometer accurately in place

1001B-Base assembly...\$210.00 1001M-Micrometer
.0 -1" Micrometer...Call for price

PATENT NO. 5,317,809 PATENT NO. 5,383,286 FOREIGN PATÉNT NO. 94901380.0



Thread Check, Inc. offers the 3-Wire Thread Measuring System for fast and accurate thread measurement on a variety of measuring instruments.

The traditional three-wire method is the most accurate method of measuring the effective or pitch diameter of an external screw thread. Unfortunately in the past, holding and correctly positioning three wires against a thread while simultaneously taking an accurate measurement had been an extremely difficult task. Now, Thread Check's 3-Wire Thread Measuring System provides a simple and precise way for determining the pitch diameter for threaded parts and thread plug gages. The system enhances Repeatability Reproducibility (R&R) and reduces measurement time to a fraction of the time normally taken using the traditional three-wire method.

Thread Check offers specially designed wire holders and wires, base assemblies, and vertically adjustable off-set platforms that make thread measurement fast and accurate. Thread Check's holders are fitted with certified full length thread measuring wires that meet or exceed the requirements of the ASME/ANSI B1.2. and B1.16M, thread standards as well as Federal Spec. GGG-W-366b and ISO standards. All wire holder sets include the actual wire size. NIST traceable number. and the constant required for determining the pitch diameter.

Thread measuring holders are precision made to predetermined thread pitches. Thread measuring wires are held in a predetermined position by light pressure clips. The holders rotate freely on the

spindle/anvil of the measuring instrument so as to engage the lead angle of a thread. Holders for finer pitches have wires positioned off center to allow for measurement at the back of a thread and closer to the shoulder of certain parts. Holders can be purchased without wires for companies that have existing wires. Wires can be easily installed. Thread measuring holders are available in a full range of Standard, Metric, and Acme sizes. Thread Check's engineering department can design wire holders for multiple start threads, helical gears, worms, and other special thread measurement applications.

Applications:

- Certify setplug gages & working thread plug gages
- Monitor the wear on working thread plug gages
- Monitor and control pitch diameter variation during thread fabrication
- Use in conjunction with "GO" and "NOGO" ring gages to control thread size to the most demanding specifications
- · Determine out of roundness and taper that may exist in threaded parts
- · Applications for preplating & postplating thread measurement
- · Eliminate the cost and time involved in using outside calibration services
- · Reduce measurement time to a fraction of the time normally taken using the traditional threewire method







3-Wire Thread Measuring Holders and Wires



	ANVIL	DIA.	
MEASURING INSTRUMENTS	INCH	MM	PART NO.
Mitutoyo Micrometers 0 -1", 1"-2"	.250	6.35	1001-
Starrett Micrometers 0 -1", 1"-2"	.250	6.35	1001-
Mitutoyo Bench Comparator Series 162	.315	8.0	3004-
Starrett Bench Comparator 673Z	.300	7.62	5002-
Pratt & Whitney Supermicrometer	.375	9.525	3104-
Browne & Sharpe Ultra Mic.	.312	7.924	3204-
Fowler Trimos	.256	6.5	1201-
Zeis ULM	.315	8.0	1301-
American SIP	.315	8.0	1401-
Helios UMG 50	.256	6.5	1501
Flexbar	.256	6.5	1701-
Mahr 828 Universal	.295	7.5	1601-

Call for compatibility of other measuring instruments.
All trademarks are the property of their respective companies.
Specials priced on request.

HOLDERS AND	WIRES
When ordering	deduct
5 to 9 sets	. \$5. per set
10 or more sets	.10. per set

Special holders and wires include: Whitworth, Buttress and Worm threads. Priced on request

Gear and spline 2 and 3 wire applications priced on request.

HOW TO ORDER

<u>1001</u> - <u>16TPI</u> - <u>W</u>

Part No TPI W=wires

or LW=less wires

Pitch

<u>1001</u> - <u>1.0M</u> - <u>W</u>



For assistance call your dealer or 1-800-767-7633

Tolerance and specifications:

Thread measuring wire sets are...

- within .000020" of best wire diameter for specified tpi.
- within .000005" of the calibrated size provided on label.
- have the same diameter within .000005".
- · roundness within .000010".
- taper does not exceed .000010".
- standard 2" lengths.
- minimum hardness of RC 62.5.
- surface finish lapped, 1 MU AA.
- traceable to NIST.
- wires meet or exceed Federal specifications ASME/ANSI B1.2 and B1.6M for Grade A Master Thread Wires



METRIC HOLDERS & WIRES						
Pitch	MM diameter	Inch diameter	Price			
.2mm	.1155	.00455	\$205			
.225mm	.1299	.00511	205			
.25mm	.1443	.00568	205			
.30mm	.1732	.00682	205			
.35mm	.2021	.00796	205			
.40mm	.2309	.00909	205			
.45mm	.2598	.01023	195			
.50mm	.2887	.01137	195			
.55mm	.3175	.01250	195			
.60mm	.3464	.01364	195			
.70mm	.4041	.01591	165			
.75mm	.4330	.01705	165			
.80mm	.4619	.01818	165			
.85mm	.4907	.01932	165			
.90mm	.5196	.02046	165			
1.00mm	.5774	.02273	165			
1.25mm	.7217	.02841	165			
1.50mm	.8660	.03410	165			
1.75mm	1.0104	.03978	165			
2.00mm	1.1547	.04546	165			
2.50mm	1.4434	.05683	165			
3.00mm	1.7321	.06819	165			
3.50mm	2.0207	.07956	165			
4.00mm	2.3094	.09092	165			
4.50mm	2.5981	.10229	205			
5.00mm	2.8868	.11365	205			
5.50mm	3.1754	.12502	205			
6.00mm	3.4641	.13638	205			
LIB	RARIES IN W	OODEN CASE	S			
Partial Library: 3-3 5 mm \$3340						

LIBRARIES IN WOODEN CASES				
Partial Library:	.3-3.5 mm	\$3340		
Full Library:	.2-4.0 mm	\$3935		

STANDARD Holders & Wires				
Threads Wire				
per inch	.00481	\$200		
100	.00481	200		
96	.00601	200		
90 80	.00642	200		
72	.00722	200		
64 56	.00902	190		
	.01031	190		
50	.01155	190		
48	.01203	155		
44	.01312	155		
40	.01443	155		
36	.01604	155		
32	.01804	155		
30	.01925	155		
28	.02062	155		
27	.02138	155		
26	.02221	155		
24	.02406	155		
22	.02624	155		
20	.02887	155		
18	.03208	155		
16	.03608	155		
14	.04124	155		
13	.04441	155		
12	.04811	155		
11.5	.05020	155		
11	.05249	155		
10	.05774	155		
9	.06415	155		
8	.07217	155		
7.5	.07698	155		
7	.08248	155		
6	.09623	155		
5.5	.10497	190		
5	.11547	190		
LIBRARI	ES IN WOOD			
Dankini I iku	* 0 00	φορορ		

0.0		
5	.11547	190
LIBRARIES IN WOODEN CASE		
Partial Library* 6-36 \$2900		
Full Library* 5-80 4545		
* 7.5 and 22 TPI not included.		

A OLUE UOL DEDO O MUDEO				
ACME HOLDERS & WIRES				
Threads Wire per inch diameter Price				
5	.10329	\$200		
5.5	.09390	180		
6	.08608	180		
7	.07378	180		
8	.06456	180		
9	.05738 180			
10	.05164 180			
11	.04695 180			
12	.04304 180			
14	.03689	180		
16	.03228	180		
18	.02869	180		
20	.02582 180			
LIBRARIES IN WOODEN CASE				
Full Library 5A-20A \$2170				

CERTIFIED THREAD MEASURING WIRES

60° METRIC		
Pitch mm	Nominal Best Wire Diameter mm	Price Set of 3
.2	.1155	\$76.00
.225	.1299	76.00
.25	.1443	76.00
.3	.1732	76.00
.35	.2021	76.00
.4	.2309	76.00
.45	.2598	76.00
.5	.2887	76.00
.6	.3464	76.00
.7	.4041	76.00
.75	.4330	48.00
.8	.4619	48.00
.9	.5196	48.00
1.0	.5774	48.00
1.25	.7217	48.00
1.5	.8660	48.00
1.75	1.0104	48.00
2.0	1.1547	48.00
2.5	1.4434	48.00
3.0	1.7321	48.00
3.5	2.0207	48.00
4.0	2.3094	48.00
4.5	2.5981	48.00
5.0	2.8868	76.00
5.5	3.1754	76.00
6.0	3.4641	76.00
7.0	4.0415	76.00
8.0	4.6188	76.00
9.0	5.1962	76.00
10.0	5.7735	76.00

LIBRARY SETS

Set No. 23M, 23 sizes	
(.3m pitch to 6m pitch)	\$1351.00
with case	
60° Metric Set No. 30M, 30 sizes (.2m pitch to 10m pitch) with case	\$1871.00

Grand Master Calibration Sets

Supplied in durable corrosion resistant containers in fitted cases, identified by serial numbers with certification of calibration.

#20 HSC, 20 sizes (6-36 TPI)	\$805.00
#30 HSC, 30 sizes (5-80 TPI)	\$1380.00
#34 HSC, 34 sizes (4-80 TPI)	\$1553.00
#30 HSC, 30 sizes (.2-10mm)	\$1610.00
#23 HSC, 22 sizes (.3-6mm)	\$1150.00
#22 HSC, 22 sizes (1-20 TPI)	\$1380.00

One master for each pitch. Grand Master Calibration Sets are not returnable for credit or cancellation. Certificate of Calibration traceable to NIST included with all sets.

60° INCH			
Threads per Inch (n)	Nominal Best Wire Diameter G	Price Set of 3	
120	.00481	\$76.00	
100	.00577	76.00	
96	.00601	76.00	
90	.00642	76.00	
80	.00722	76.00	
72	.00802	76.00	
64	.00902	76.00	
56	.01031	76.00	
50	.01155	76.00	
48	.01203	48.00	
44	.01312	48.00	
40	.01443	48.00	
36	.01604	48.00	
32	.01804	48.00	
30	.01925	48.00	
28	.02062	48.00	
27	.02138	48.00	
26	.02221	48.00	
24	.02406	48.00	
22	.02624	48.00	
20	.02887	48.00	
18	.03208	48.00	
16	.03608	48.00	
14	.04124	48.00	
13	.04441	48.00	
12	.04811	48.00	
11½	.05020	48.00	
11	.05249	48.00	
10	.05774	48.00	
9	.06415	48.00	
8	.07217	48.00	
7½	.07698	48.00	
7	.08248	48.00	
6	.09623	48.00	
5½	.10497	76.00	
5	.11547	76.00	
4½	.12830	76.00	
4	.14434	76.00	
3½	.16496	76.00	
31/4	.17765	76.00	
3	.19245	76.00	
23/4	.20995	76.00	
2½	.23094	76.00	

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LIBRARY SETS	
60°Inch Set No. 30 HS* 30 sizes (5-80 TPI) with case	\$1578.00
Set No. 34 HS 34 sizes (4-80 TPI) with case	1803.00
Set No.20 HS*20 sizes (6-36 TPI) with case	937.00
Set No. 20 TC 20 sizes (6-36 TPI) with case (tungsten carbide shop set)	Priced on Request

.28868

76.00

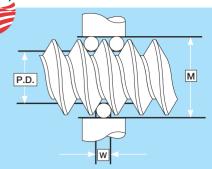
29° ACME			
Threads Nominal Pric per Best Wire Set Inch (n) Diameter 3 G			
1	.51645	\$87.00	
1⅓	.38734	87.00	
11/2	.34430	87.00	
13/4	.29511	87.00	
2	.25823	87.00	
21/2	.20658	87.00	
3	.17215	87.00	
3½	.14756	70.00	
4	.12911	70.00	
41/2	.11477	70.00	
5	.10329	70.00	
5½	.09390	70.00	
6	.08608	70.00	
7	.07378	70.00	
8	.06456	70.00	
9	.05738	70.00	
10	.05164	70.00	
12	.04304	70.00	
14	.03689	70.00	
16	.03228	70.00	
18	.02869	70.00	
20	.02582	70.00	

LIBRARY SETS

\$1671.00

SPECIAL THREAD MEASURING WIRES +/- .000020"

Above - including	Set of 3
.004005"	\$145.00
.1016mm1270mm	
.005007"	145.00
.1270mm1778mm	
.007010"	110.00
.1778mm2540mm	
.010"135"	110.00
.2540mm-3.429mm	
.135260"	110.00
3.429mm-6.604mm	
.260385"	120.00
6.604mm-9.779mm	
.385510"	120.00
9.779mm-12.954mm	
.510635"	120.00
12.954mm-16.129mm	
.635760"	145.00
16.129mm-19.304mm	
.760-1.010"	145.00
19.304mm-25.654mm	



P.D. = Pitch Diameter

M = Measurement over wires W = Wire diameter

C = Constant

 $C = .86603 \times Pitch (inches) -3W$

P.D. = M-C W = .57735 x P

Thread Measuring Wires Tolerance and specifications:

- within .000020" of best wire diameter for specified tpi.
- within .000005" of the calibrated size provided on label.
- have the same diameter within .000005".
- roundness within .000010".
- taper does not exceed .000010".
- · standard 2" lengths.
- minimum hardness of RC 62.5.
- surface finish lapped, 1 MU AA.
- traceable to NIST.
- wires meet or exceed Federal specifications ASME/ANSI B1.2 and B1.6M for Grade A Master **Thread Wires**

Use of best size wires

In measuring screw threads it is desirable to use wires which touch the thread at or near the pitch diameter for the reason that with such "Best Size" wires the measurement of pitch diameter is least effected by an error in the included angle of thread.

	Max.	Best	Min.
60°	1.010362p	.57735p	.505182p
55°	.82573p	.563692p	.50568p
53°-8°	.97828p	.55902p	.54076p
471/2°	.72889p	.54625p	.49852p
29° Acme	.650013p	.51645p	.487263p

p=Pitch n=TPI P= 1/n

Notes: Maximum and minimum wires should be used which are safely within the limiting dimensions given by the above

Call for information and pricing of special wire diameters including Whitworth, British Association. Buttress and worm threads.

Root Diameter Wires:

 60° and 55° threads from $4^{1}/_{2}$ -64 TPI. Price per set of 3 wires. Call for prices.

^{* 7}½ & 22 TPI not included in these sets.



GEAR MEASURING WIRES

	WIRE DIAMETER FOR ENLARGED PINIONS	WIRE DIAMETER FOR EXTERNAL GEARS	ALTERNATE SERIES	WIRE DIAMETER FOR INTERNAL GEARS	PRICE SET OF
P	1.92" P	1.728" P	1.68" P	1.44" P	TW0
2	.960	.864	.840	.720	\$84.00
2-1/2	.768	.6912	.672	.576	84.00
3	.640	.576	.560	.480	84.00
4	.480	.432	.420	.360	84.00
5	.384	.3456	.336	.288	58.00
6	.320	.288	.280	.240	58.00
7	.27428	.24686	.240	.20571	58.00
8	.240	.216	.210	.180	48.00
9	.21333	.192	.18666	.160	48.00
10	.192	.1728	.168	.144	48.00
11	.17454	.15709	.15273	.13091	48.00
12	.160	.144	.140	.120	48.00
14	.13714	.12343	.120	.10286	48.00
16	.120	.108	.105	.090	48.00
18	.10667	.096	.09333	.080	48.00
20	.096	.0864	.084	.072	48.00
22	.08727	.07855	.07636	.06545	48.00
24	.080	.072	.070	.060	48.00
28	.06857	.06171	.060	.05143	48.00
32	.060	.054	.0525	.045	48.00
36	.05333	.048	.04667	.040	48.00
40	.048	.0432	.042	.036	48.00
48	.040	.036	.035	.030	48.00
64	.030	.027	.02625	.0225	48.00
72	.02667	.024	.02333	.020	48.00
80	.024	.0216	.021	.018	48.00
96	.020	.018	.0175	.015	48.00
100	.0192	.01728	.0168	.0144	48.00
120	.0160	.0144	.014	.012	74.00
128	.0150	.0135	.01312	.01125	74.00
200	.0096	.00864	.0084	.0072	74.00

Add 50% for 3-Wire Sets

Gear Measuring Holders available for both 2 and 3 wire gear applications.

Please provide measuring instrument and spindle diameter when ordering

PRICES ON REQUEST FOR • Metric module sets • Carbide gear wires • Modified gear

wires • Flatted gear wires • Gear measuring master wire library sets available

All Gear Measuring Wires meet or exceed Former Federal Specification GGG-W-366b for

Grade AM.G.W. Wires are lapped to 2 RMS micro inchfinish or less.

SPECIAL GEAR MESURING WIRES +/000010"					
INCH ABOVE - TO	METRIC ABOVE - TO	PRICE PER 2 WIRE SET			
.004005"	.1016mm1270mm	\$120.00			
.005007"	.1270mm1778mm	120.00			
.007010"	.1778mm2540mm	97.00			
.010135"	.2540mm - 3.429mm	97.00			
.135260"	3.429mm - 6.604mm	97.00			
.260385"	6.604mm - 9.779mm	97.00			
.385510"	9.779mm - 12.954mm	97.00			
.510635"	12.954mm - 16.129mm	97.00			
.635760"	16.129mm - 19.304mm	120.00			
.760 - 1.010"	19.304mm - 25.654mm	120.00			

Gear wires are measured at 1 pound pressure between flat and parallel measuring surfaces.



GEAR MEASURING WIRES MASTER SETS

Prices do not include long form certification. Long Form Certifications are available for \$18.00 per Pitch

Set No. 84 \$4315.00 Includes 2 wires each of 84 sizes from 1.92", 1.728", 1.44", and 1.68" series for measuring tooth thickness and checking involute profiles of external and

Set No. 71EXIncludes 2 wires each of 71 sizes from 1.92", 1.728, 1.44", and 1.68" series

for measuring tooth thickness and checking involute profiles of external and internal gears from 2 to 80 P. Complete in mahogany cases.

internal gears from 2 to 80 P. Complete in mahogany cases.

Set No. 48G \$2415.00

Includes 2 wires each of 48 sizes (excluding duplicates) from 1.728" and 1.44" series for measuring external and internal gears from 2 to 80 P. Complete in mahogany cases.

Set No. 26EX \$1244.00

Includes 2 wires each of 26 sizes from 1.728" series for external gears from 2 to 80 P. Complete in mahogany case.

Set No. 26IN \$1315.00

Includes 2 wires each of 26 sizes from 1.44" series for internal gears from 2 to 80 P. Complete in mahogany case

Set No. 26 \$1350.00

Includes 2 wires each of 26 sizes from 1.68" alternate series for measurement of external or internal gears from 2 to 80 P. Complete in mahogany case.

Set No. 15 \$840.00

Includes 2 wires each of 15 sizes from 1.92" series for 21/2, 3, 4, 5, 6, 8, 10, 12, 16, 20, 24, 32, 40, 48, and 64 P, external 30 degree splines, in mahogany case

Set No. 15IN \$1380.00

Includes 2 wires each of 15 sizes from 1.92" series for 21/2 , 3, 4, $\bar{5}$, 6, 8, 10, 12, 16, 20, 24, 32, 40, 48, and 64 P with flats for 30 degree internal splines, in mahogany case

Set No. 9 \$450.00

Includes 2 wires each of 9 sizes from 1.92" series for 10, 16, 24, 32 40, 48, 64, 80, and 128 P, external and internal 45 degree serrated shafts, in mahogany case.

Note: To avoid unnecessary duplication and expense, wires of like diameter are interchangeable within the series sets, and not duplicated in sets of No. 84, 71EX, and 48G

Metric Module Sets are priced on request

TRI-ROLL COMPARATOR

THREAD CHECK COMPARATORS:

- System offers actual measurements of dimensional characteristics for quicker machine adjustments during thread production.
- Reduces gaging time over thread plug and ring gages.
- One single gage can be used for pre-plate, after-plate class 1, 1A, 2, 2A, 3, 3A eliminating the need for multiple fixed limit thread plug and ring gages.
- Ideal for use with Statistical Process Control SPC.
- Rigid construction and constant measuring pressure provides consistent and accurate readings.
- Quick setting with the use of a set master.
- Easy to setup.

BASIC SPECIFICATIONS						
Frame		ange Norm ich		ic (MM)	For Threads	Roll Length
No.	Above	to & Incl.	Above	to & Incl.		
0	.059	.073	1.5	1.8	80 to 64	.223
1	.073	.099	1.8	2.5	64 to 48	.223
2	.099	.164	2.5	4.2	48 to 32	.223
3	.164	.313	4.2	7.9	32 to 18	.424
4	.313	.500	7.9	12.7	32 to 12	.424
5	.500	.750	12.7	19.0	28 to 10	.626
6	.750	1.125	19.0	28.5	28 to 6	.931
7	1.125	1.500	28.5	38.1	28 to 6	.931
8	1.500	1.875	38.1	47.6	28 to 4	.931
9	1.875	2.250	47.6	57.1	28 to 4	.931
10	2.250	2.625	57.1	66.7	28 to 4	.931
11	2.625	3.000	66.7	76.2	28 to 4	.931
12	3.000	3.375	76.2	85.7	28 to 4	.931

There are 5 components that comprise a complete Tri-Roll Comparator Assembly. To assist you in ordering, we have separated each of the five components into pricing tables with the size, range and price.

1. BASE	& ACCESSORIES		Price
Base			\$40.00
Multiple	Mounting Bar		45.00
Dual Frai	ne Assembly		80.00
	n Handle for Hand He	eld Unit	50.00
2. FRAM	ES		
	Range-Non	ninal Size	
Frame	Above	To & Including	
No.	Inch (Metric)Inch	(Metric)	
0	.059 (1.5mm)	.073 (1.8mm)	352.00
1	.073 (1.8mm)	.099 (2.5mm)	352.00
2	.099 (2.5mm)	.164 (4.2mm)	362.00
3	.164 (4.2mm)	.313 (7.9mm)	362.00
4	.313 (7.9mm)	.500 (12.7mm)	366.00
5	.500 (12.7mm)	.750 (19.0mm)	366.00
6	.750 (19.0mm)	1.125 (28.5mm)	384.00
7	1.125 (28.5mm)	1.500 (38.1mm)	384.00
8	1.500 (38.1mm)	1.875 (47.6mm)	575.00
9	1.875 (47.6mm)	2.250 (57.1mm)	610.00
10	2.250 (57.1mm)	2.625 (66.7mm)	641.00
11	2.625 (66.7mm)	3.000 (76.2mm)	759.00
12	3.000 (76.2mm)	3.375 (85.7mm)	812.00

3. DIAL INDICATOR or DIGITAL INDICATOR
Call for options an

	Gail for options and	u prices
4. STOP ADJUSTING TOOL		\$25.00

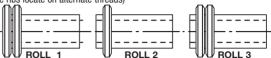


5. GAGING ROLLS - INCH								
Type 3 Functional	Full Prof Size Dia	ile - meter	Type 4 Co Single Elemen			Type 5 "Best \ Single Element	Vire" Siz t Pitch Di	e Radius ameter
Size	Frame	Price	Size F	rame	Price	Size	Frame	Price
0-80	0	\$296.00				0-80	0	171.00
1-64	0	296.00	i			1-64	0	171.00
1-72	0	296.00	i			1-72	0	171.00
2-56	1	296.00	i Call	for	price	2-56	1	171.00
2-64	1	296.00	İ		•	2-64	1	171.00
3-48	1	296.00	İ			3-48	1	171.00
3-56	1	296.00	ĺ			3-56	1	171.00
4-40	2	296.00	4-40	2	257.00	4-40	2	171.00
5-40	2	296.00	5-40	2	257.00	5-40	2	171.00
5-44	2	296.00	5-44	2	257.00	5-44	2	171.00
6-32	2	296.00	6-32	2	257.00	6-32	2	171.00
6-40	2	296.00	6-40	2	257.00	6-40	2	171.00
8-32	2	296.00	8-32	2	257.00	8-32	2	171.00
8-36	2	296.00	8-36	2	257.00	8-36	2	171.00
10-24	3	296.00	10-24	3	257.00	10-24	3	171.00
10-32	3	296.00	10-32	3	257.00	10-32	3	171.00
12-24	3	296.00	12-24	3	257.00	12-24	3	171.00
12-28	3	296.00	12-28	3	257.00	12-28	3	171.00
1/4-20	3	296.00	1/4-20	3	257.00	1/4-20	3	171.00
1/4-28	3	296.00	1/4-28	3	257.00	1/4-28	3	171.00
5/16-18	3	296.00	5/16-18	3	257.00	5/16-18	3	171.00
5/16-24	3	296.00	5/16-24	3	257.00	5/16-24	3	171.00
3/8-16	4	296.00	3/8-16	4	257.00	3/8-16	4	171.00
3/8-24	4	296.00	3/8-24	4	257.00	3/8-24	4	171.00
7/16-14	4	296.00	7/16-14	4	257.00	7/16-14	4	171.00
7/16-20	4	296.00	7/16-20	4	257.00	7/16-20	4	171.00
1/2-13	4	296.00	1/2-13	4	257.00	1/2-13	4	171.00
1/2-20	4	296.00	1/2-20	4	257.00	1/2-20	4	171.00
9/16-12	5	296.00	9/16-12	5	257.00	9/16-12	5	171.00
9/16-18	5	296.00	9/16-18	5	257.00	9/16-18	5	171.00
5/8-11	5	296.00	5/8-11	5	257.00	5/8-11	5	171.00
5/8-18	5	296.00	5/8-18	5	257.00	5/8-18	5	171.00
3/4-10	5	296.00	3/4-10	5	257.00	3/4-10	5	171.00
3/4-16	5	296.00	3/4-16	5	257.00	3/4-16	5	171.00
7/8-9	6	304.00	7/8-9	6	290.00	7/8-9	6	200.00
7/8-14	6	304.00	7/8-14	6	290.00	7/8-14	6	200.00
1"- 8	6	304.00	1"- 8	6	290.00	1"- 8	6	200.00
1"-12	6	304.00	1"-12	6	290.00	1"-12	6	200.00
1"- 14	6	304.00	1"- 14	6	290.00	1"- 14	6	200.00
1 1/8-7	6	304.00	1 1/8-7	6	290.00	1 1/8-7	6	200.00
1 1/8-12	6	304.00	1 1/8-12	6	290.00	1 1/8-12	6	200.00
1 1/4-7	7	304.00	1 1/4-7	7	290.00	1 1/4-7	7	200.00
1 1/4-12	7	304.00	1 1/4-12	7	290.00	1 1/4-12	7	200.00
1 3/8-6	7	304.00	1 3/8-6	7	290.00	1 3/8-6	7	200.00
1 3/8-12	7	304.00	1 3/8-12	7	290.00	1 3/8-12	7	200.00
1 1/2-6	7	304.00	1 1/2-6	7	290.00	1 1/2-6	7	200.00
1 1/2-12	7	304.00	1 1/2-12	7	290.00	1 1/2-12	7	200.00

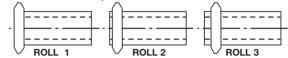
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	5. GAGING RUL	T9 - I	5. GAGING RULLS - METRIC							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Full Profile -		Cone and Vee -			"Best Wire" Size Radius -				
M2 x .4 1 \$269.00 Call for price M2 x .4 1 171.00 M2.5 x .45 1 296.00 M3.5 x .6 2 296.00 M3.5 x .6 1 171.00 M3.5 x .6 2 296.00 M3.5 x .6 2 257.00 M3.5 x .6 2 171.00 M4 x .7 2 296.00 M4 x .7 2 257.00 M4 x .7 2 171.00 M5 x .8 3 296.00 M5 x .8 3 257.00 M5 x .8 3 171.00 M6 x 1 3 296.00 M6 x 1 3 257.00 M6 x 1 3 171.00 M8 x 1.25 4 296.00 M8 x 1.25 4 257.00 M8 x 1.25 4 171.00 M10 x 1.5 4 296.00 M10 x 1.5 4 257.00 M10 x 1.5 4 171.00 M10 x 1.25 4 296.00 M10 x 1.25 4 257.00 M10 x 1.25 4 171.00 M12 x 1.25	Size F	rame	Price	Size F	rame	Price	Size	Frame	Price	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Call fo	or pri	ce				M1.6 x .35	0	171.00	
M3 x .5 2 296.00 M3.5 x .6 2 257.00 M3.5 x .6 2 171.00 M4 x .7 2 296.00 M4 x .7 2 257.00 M4 x .7 2 171.00 M5 x .8 3 296.00 M5 x .8 3 257.00 M5 x .8 3 171.00 M6 x 1 3 296.00 M6 x 1 3 257.00 M6 x 1 3 171.00 M8 x 1.25 4 296.00 M8 x 1.25 4 257.00 M8 x 1.25 4 171.00 M10 x 1.5 4 296.00 M10 x 1.5 4 257.00 M10 x 1.5 4 171.00 M10 x 1.25 4 296.00 M10 x 1.25 4 257.00 M10 x 1.25 4 171.00 M12 x 1.75 4 296.00 M12 x 1.75 4 257.00 M12 x 1.75 4 171.00 M12 x 1.25 4 296.00 M12 x 1.25 4 257.00 M12 x 1.25 4 171.00 <td>M2 x .4</td> <td>1</td> <td>\$269.00</td> <td>Call</td> <td>for pr</td> <td>ice</td> <td>M2 x .4</td> <td>1</td> <td>171.00</td>	M2 x .4	1	\$269.00	Call	for pr	ice	M2 x .4	1	171.00	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	M2.5 x .45	1	296.00				M2.5 x .5	1	171.00	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	M3 x .5		296.00				M3 x .45		171.00	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	M3.5 x .6		296.00	M3.5 x .6		257.00	M3.5 x .6	2	171.00	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	M4 x .7		296.00	M4 x .7		257.00	M4 x .7		171.00	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	M5 x .8		296.00			257.00			171.00	
M10 x1.5 4 296.00 M10 x 1.5 4 257.00 M10 x 1.5 4 171.00 M10 x1.25 4 296.00 M10 x 1.25 4 257.00 M10 x 1.25 4 171.00 M12 x1.75 4 296.00 M12 x 1.75 4 257.00 M12 x 1.75 4 171.00 M12 x1.25 4 296.00 M12 x 1.25 4 257.00 M12 x 1.25 4 171.00 M14 x 2 5 296.00 M14 x 2 5 257.00 M14 x 2 5 171.00 M14 x 1.5 5 296.00 M14 x 1.5 5 257.00 M14 x 1.5 5 171.00 M16 x 2 5 296.00 M16 x 2 5 257.00 M16 x 2 5 171.00 M20 x 1.5 6 301.00 M20 x 1.5 6 290.00 M20 x 1.5 6 200.00 M22 x 1.5 6 301.00 M22 x 1.5 6 290.00 M22 x 1.5 6 200.00	M6 x 1	3	296.00	M6 x 1	3	257.00	M6 x 1	3	171.00	
M10 x1.25 4 296.00 M10 x1.25 4 257.00 M10 x 1.25 4 171.00 M12 x1.75 4 296.00 M12 x1.75 4 257.00 M12 x 1.75 4 171.00 M12 x1.25 4 296.00 M12 x 1.25 4 257.00 M12 x 1.25 4 171.00 M14 x 2 5 296.00 M14 x 2 5 257.00 M14 x 1.5 5 171.00 M16 x 2 5 296.00 M14 x 1.5 5 257.00 M14 x 1.5 5 171.00 M16 x 2 5 296.00 M16 x 2 5 257.00 M16 x 2 5 171.00 M20 x 1.5 6 301.00 M20 x 1.5 6 290.00 M20 x 1.5 6 200.00 M22 x 1.5 6 301.00 M22 x 1.5 6 290.00 M22 x 1.5 6 200.00	M8 x 1.25	4	296.00		4	257.00	M8 x 1.25	4	171.00	
M12 x1.75 4 296.00 M12 x1.75 4 257.00 M12 x 1.75 4 171.00 M12 x1.25 4 296.00 M12 x1.25 4 257.00 M12 x 1.25 4 171.00 M14 x 2 5 296.00 M14 x 2 5 257.00 M14 x 2 5 171.00 M14 x 1.5 5 296.00 M14 x 1.5 5 257.00 M14 x 1.5 5 171.00 M16 x 2 5 296.00 M16 x 2 5 257.00 M16 x 2 5 171.00 M20 x 1.5 6 301.00 M20 x 1.5 6 290.00 M20 x 1.5 6 200.00 M22 x 1.5 6 301.00 M22 x 1.5 6 290.00 M22 x 1.5 6 200.00					-			4		
M12 x1.25 4 296.00 M12 x1.25 4 257.00 M12 x 1.25 4 171.00 M14 x 2 5 296.00 M14 x 2 5 257.00 M14 x 2 5 171.00 M14 x 1.5 5 296.00 M14 x 1.5 5 257.00 M14 x 1.5 5 171.00 M16 x 2 5 296.00 M16 x 2 5 257.00 M16 x 2 5 171.00 M20 x 1.5 6 301.00 M20 x 1.5 6 290.00 M20 x 1.5 6 200.00 M22 x 1.5 6 301.00 M22 x 1.5 6 290.00 M22 x 1.5 6 200.00					-			4		
M14 x 2 5 296.00 M14 x 2 5 257.00 M14 x 2 5 171.00 M14 x 1.5 5 296.00 M14 x 1.5 5 257.00 M14 x 1.5 5 171.00 M16 x 2 5 296.00 M16 x 2 5 257.00 M16 x 2 5 171.00 M20 x 1.5 6 301.00 M20 x 1.5 6 290.00 M20 x 1.5 6 200.00 M22 x 1.5 6 301.00 M22 x 1.5 6 290.00 M22 x 1.5 6 200.00	M12 x1.75	4	296.00	M12 x1.75	4	257.00	M12 x 1.75	4	171.00	
M14 x 1.5 5 296.00 M14 x 1.5 5 257.00 M14 x 1.5 5 171.00 M16 x 2 5 296.00 M16 x 2 5 257.00 M16 x 2 5 171.00 M20 x 1.5 6 301.00 M20 x 1.5 6 290.00 M20 x 1.5 6 200.00 M22 x 1.5 6 301.00 M22 x 1.5 6 290.00 M22 x 1.5 6 200.00										
M16 x 2 5 296.00 M16 x 2 5 257.00 M16 x 2 5 171.00 M20 x 1.5 6 301.00 M20 x 1.5 6 290.00 M20 x 1.5 6 200.00 M22 x 1.5 6 301.00 M22 x 1.5 6 290.00 M22 x 1.5 6 200.00			296.00							
M20 x 1.5 6 301.00 M20 x 1.5 6 290.00 M20 x 1.5 6 200.00 M22 x 1.5 6 301.00 M22 x 1.5 6 290.00 M22 x 1.5 6 200.00								_		
M22 x 1.5 6 301.00 M22 x 1.5 6 290.00 M22 x 1.5 6 200.00		_								
		_								
M24 x 3 6 301.00 M24 x 3 6 290.00 M24 x 3 6 200.00					_			_		
	M24 x 3	6	301.00	M24 x 3	6	290.00	M24 x 3	6	200.00	



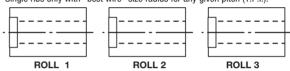
TYPE 3: Full Profile-Functional Diameter size. Full ribbed rolls for functional diameter size for pitches coarser than 48 T.P.I. (for 48 T.P.I. and finer the ribs locate on alternate threads)



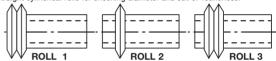
TYPE 4: Cone and Vee-Single Element Pitch Diameter. Two ribs ("vee"-type) on lower rolls (No.1 and 3). One rib ("cone" type) on upper roll (No2) Flank contact limited to .1 pitch.



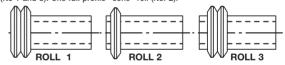
TYPE 5: "Best Wire" Size Radius-Single Element Pitch Diameter. Single ribs only with "best wire" size radius for any given pitch (T.P.I.).



TYPE 6: Plain Rolls-Thread Major Diameter and Plain Cylindrical Parts. Straight cylindrical rolls for checking diameter and out-of-roundness.



TYPE 7: Minor Diameter (55° Included Angle). Two full profile "vee" rolls (No 1 and 3). One full profile "cone" roll (No. 2).



TYPE 8: Lead/Flank Angle. Two full profile "vee" rolls (No 1 and 3) with outside flanks relieved. One full profile "cone" roll (No. 2).

Gaging rolls are also available for: Taper Pipe, ACME, Buttress, specials.

Call for prices **800-767-7633**



Measure I.D.
Threads with
Internal Thread
Comparators.
Call for prices.

STC External Segment Thread Comparator.

Functional size. Use full form gaging sequential where 180° contact is specified.

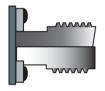
5 GAGING ROLLS - METRIC

ITC COMPARATOR AND GAGING SEGMENTS

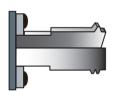
THREAD CHECK COMPARATORS:

- System offers actual measurements of dimensional characteristics for quicker machine adjustments during thread production.
- Reduces gaging time over thread plug and ring gages.
- One single gage can be used for pre-plate, after-plate class 2, 2B, 3, 3B eliminating the need for multiple fixed limit thread plug and ring gages.
- Ideal for use with Statistical Process Control SPC.
- Rigid construction and constant measuring pressure provides consistent and accurate readings.
- Quick setting with the use of a master setting ring.
- Easy to setup.

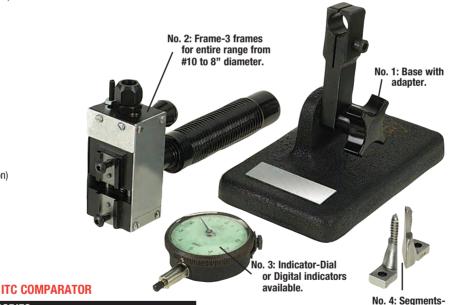




Gaging Segments
Functional Size
(Maximum Material Condition)
Use full profile functional
gaging segments.



Gaging Segments
Pitch Diameter Size
(Minimum Material Condition)
Use full profile functional
gaging segments.
Cone and vee.



1. BASE AND ACCESSORIES							
with Adapte	r		\$78.00				
Multiple Mo	39.00						
Dual Frame	Base Assembly		72.00				
2. FRAMES							
Frame #		Above	To & Include				
100	.189 (4.8mm)	2.500 (63.5mm)	\$669.00				
200	2.500 (63.5mm)	5.000 (127mm)	817.00				

3. DIAL INDICATOR

300

Dial or Digital Indicator-Call for pricing-800-767-7633

5.000 (127mm) | 8.000 (203.2mm)

917.00

INCHES	Full Profile Functional Pitch Diameter	Cone & Vee Single Element Pitch Diameter
#10-24	\$344.00	\$397.00
#10-32	344.00	397.00
#12-24	344.00	397.00
#12-28	344.00	397.00
1/4-20	344.00	397.00
1/4-28	344.00	397.00
⁵ ∕16-18	344.00	397.00
5/16-24	344.00	397.00
3⁄8-16	344.00	397.00
3/8-24	344.00	397.00
⁷ / ₁₆ -14	344.00	397.00
⁷ / ₁₆ -20	344.00	397.00
1/2-13	344.00	397.00
1/2-20	344.00	397.00
%16 -12	427.00	484.00
%16 -18	427.00	484.00
5/8-11	427 .00	484.00
5 %-18	427 .00	484.00
7/8-9	427 .00	484.00
7/8-14	427 .00	484.00
1"- 8	427 .00	484.00
1"- 12	427 .00	484.00
1"- 14	427 .00	484.00
11/8"- 7	442 .00	500.00
11/8"- 12	442 .00	500.00
11/4" - 7	442 .00	500.00
11/4"- 12	442 .00	500.00
1%"- 6	442 .00	500.00
1%"- 12	442 .00	500.00
1½"-6	441 .00	474.00
1½"- 12	441 .00	474.00

METRIC

Length

\$344.00

344.00

344.00

344.00

344.00

344.00

344.00

427.00

427.00

427.00

427.00

427.00

427.00 460.00

Price

\$397.00

397.00

397.00

397.00

397.00

397.00

397.00

484.00

484.00

484.00

484.00

460.00

Size

M5 x 8

M6 x 1

M8 x 1.25

M10 x 1.5

M10 x 1.25

M12 x 1.75

M12 x 1.25

M14 x 2

M14 x 1.5

M16 x 2

M20 x 1.5

M22 x 1.5

M24 x 3

Full profile or

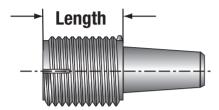
Cone and Vee

4. SEGEMENTS



MASTER SETTING PLUGS AND RINGS for Tri-Roll and ITC Comparators

Class "W" Tolerance Full Form Master Set Plug



Class "W" Master **Setting Ring**



MASTER SETTING RINGS Class "W" Tolerance								
INC								
Size	Size Length Price							
#10-24	3/8	\$384.00						
#10-32	3/8	384.00						
#12-24	3/8	384.00						
#12-28	3/8	384.00						
1/4-20	3/8	384.00						
1/4-28	3/8	384.00						
5/16-18	3/8	384.00						
5/16-24	3/8	384.00						
3/8-16	9/16	384.00						
3/8-24	9/16	384.00						
7/16-14	9/16	384.00						
7/16-20	9/16	384.00						
1/2-13	9/16	384.00						
1/2-20	9/16	384.00						
9/16-12	9/16	470.00						
9/16-18	9/16	470.00						
5/8-11	9/16	470.00						
5/8-18	9/16	470.00						
3/4-10	9/16	470.00						
3/4-16	9/16	470.00						
7/8-9	3/4	470.00						
7/8-14	3/4	470.00						
1"- 8	3/4	470.00						
1"- 12	3/4	470.00						
1"- 14	3/4	470.00						
11/8"- 7	3/4	539.00						
11/8"- 12	3/4	539.00						
11/4"- 7	3/4	539.00						
1 ^{1/4} "- 12	3/4	539.00						
13/8"- 6	3/4	539.00						
13/8"- 12	3/4	539.00						
11/2"- 6	3/4	539.00						
11/2"- 12	3/4	539.00						
		e						

Size	Length	Price
M5 x 8	3/8	384.00
M6 x 1	3/8	384.00
M8 x 1.25	9/16	384.00
M10 x 1.5	9/16	384.00
M10 x 1.25	9/16	384.00
M12 x 1.75	9/16	384.00
M12 x 1.25	9/16	384.00
M14 x 2	9/16	470.00
M14 x 1.5	9/16	470.00
M16 x 2	9/16	470.00
M20 x 1.5	3/4	470.00
M22 x 1.5	3/4	470.00
M24 x 3	3/4	470.00

Size Length Price Handle 0-80 1/4 \$98.00 \$11.00 1-64 1/4 98.00 11.00 1-72 1/4 98.00 11.00 2-56 1/4 98.00 11.00 2-64 1/4 98.00 11.00 3-48 1/4 98.00 11.00 3-56 1/4 98.00 11.00 4-40 5/16 85.00 11.00 5-40 5/16 93.00 11.00 5-40 5/16 82.00 11.00 6-32 5/16 82.00 11.00 6-32 5/16 82.00 11.00 8-32 13/32 82.00 11.00 8-36 13/32 82.00 11.00 10-24 13/32 88.00 11.00 12-24 13/32 88.00 11.00 12-28 13/32 88.00 11.00 1/2-28 1/2 72.00	MASTER SETTING PLUGS Class "W" Tolerance Full Form INCH 3A (Go Basic)				
1-64 1/4 98.00 11.00 1-72 1/4 98.00 11.00 2-56 1/4 98.00 11.00 2-64 1/4 98.00 11.00 3-48 1/4 98.00 11.00 3-56 1/4 98.00 11.00 4-40 5/16 85.00 11.00 4-48 5/16 93.00 11.00 5-40 5/16 86.00 11.00 6-32 5/16 82.00 11.00 6-32 5/16 82.00 11.00 6-32 5/16 82.00 11.00 8-36 13/32 82.00 11.00 10-32 13/32 82.00 11.00 10-32 13/32 82.00 11.00 12-24 13/32 88.00 11.00 12-28 13/32 88.00 11.00 12-28 13/32 88.00 11.00 1/4-20 1/2 72.00	Size	Length	Price	Handle	
1-72 1/4 98.00 11.00 2-56 1/4 98.00 11.00 2-64 1/4 98.00 11.00 3-48 1/4 98.00 11.00 3-56 1/4 98.00 11.00 4-40 5/16 85.00 11.00 4-48 5/16 93.00 11.00 5-40 5/16 86.00 11.00 6-32 5/16 82.00 11.00 6-32 5/16 82.00 11.00 6-32 5/16 82.00 11.00 8-36 13/32 82.00 11.00 10-24 13/32 82.00 11.00 10-32 13/32 82.00 11.00 12-24 13/32 88.00 11.00 12-28 13/32 88.00 11.00 14-20 1/2 72.00 10.00 1/4-28 1/2 72.00 10.00 5/16-18 1/2 72.00	0-80	1/4	\$98.00	\$11.00	
2-56 1/4 98.00 11.00 2-64 1/4 98.00 11.00 3-48 1/4 98.00 11.00 3-56 1/4 98.00 11.00 4-40 5/16 85.00 11.00 4-48 5/16 93.00 11.00 5-40 5/16 93.00 11.00 6-32 5/16 82.00 11.00 6-32 5/16 82.00 11.00 8-32 13/32 82.00 11.00 8-36 13/32 82.00 11.00 10-24 13/32 82.00 11.00 10-32 13/32 88.00 11.00 12-24 13/32 88.00 11.00 12-28 13/32 88.00 11.00 1/4-20 1/2 72.00 10.00 1/4-28 1/2 72.00 10.00 5/16-18 1/2 72.00 10.00 5/16-24 1/2 72.00	1-64	1/4			
2-56 1/4 98.00 11.00 2-64 1/4 98.00 11.00 3-48 1/4 98.00 11.00 3-56 1/4 98.00 11.00 4-40 5/16 85.00 11.00 4-48 5/16 93.00 11.00 5-40 5/16 82.00 11.00 6-32 5/16 82.00 11.00 6-32 5/16 82.00 11.00 8-32 13/32 82.00 11.00 8-36 13/32 82.00 11.00 10-24 13/32 82.00 11.00 10-32 13/32 88.00 11.00 12-24 13/32 88.00 11.00 12-24 13/32 88.00 11.00 1/4-20 1/2 72.00 10.00 1/4-28 1/2 72.00 10.00 5/16-18 1/2 72.00 10.00 5/16-24 1/2 72.00	1-72	1/4	98.00	11.00	
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11/2"-12 1 222.00 11.00					
				11.00	

METRIC 6g (GO)						
Size	Length	Price	Handle			
M1 .6 x.35	1/4	\$112.00	\$11.00			
M2 x .4	1/4	103.00	11.00			
M2.5 x .45	1/4	103.00	11.00			
M3 X .5	5/16	103.00	11.00			
M4 x.7	13/32	101.00	11.00			
M5 x.8	13/32	101.00	11.00			
M6 x .1	1/2	86.00	10.00			
M8 x 1.25	1/2	86.00	10.00			
M10 x1.5	3/4	92.00	10.00			
M10 x1.25	3/4	92.00	10.00			
M12 x1.75	3/4	97.00	10.00			
M12 x1.25	3/4	97.00	10.00			
M14 x2	7/8	109.00	10.00			
M14 x1.5	7/8	109.00	10.00			
M16 x2	7/8	130.00	10.00			
M20 x1.5	7/8	151.00	10.00			
M22 x1.5	1	161.00	11.00			
M24 x3	1	180.00	11.00			

Power Driven Thread Gaging Thread Check offers a innovative

Thread Check offers a innovative Power Driven Thread Gaging System.

- Inspects threads for functional size and depth faster than conventional methods
- Power Driven Thread Gaging reduces operator fatigue and repetitive motion injuries
- Safely checks threads using unique slip clutches
- Portable for heavy industrial use
- High performance NiMH rechargeable quick change batteries with low voltage charging stations
- Custom threads and specially designed units are available



User friendly and ergonomically designed, the Power DrivenThread Gaging unit inspects threaded parts for size and depth faster than any other process. It is portable for heavy industrial use.

Available in two styles for checking Thread Ranges from (M1.6-M39.0) Metric (#0-1.500) inches.

Style 1. Lightweight Model uses M1.6-M8.0-#0-5/16"

Style 2. Universal Model M4.0-M39.0 #8-1.500"



Clutches engineered to fit ANSI/ISO tapers, heavy use Anodized Blue. Existing thread members can be used with these clutches. Specially designed Power Thread Gage Members are available.



Available in Single and twin Station Models.



Stacker Plate

LIGHTWEIGHT SIZE ONE

POWER DRIVEN THREAD GAGING



Item No.0245 Power-Driven Thread Gage Appliance & Charging Station. \$2530.00



Item No.0246 Twin version-2 Power-Driven Thread Gage Systems with 1 charging station and second charging holder. \$4482.50



Item No.0247 Mixed Twin Version. Charging station for size 1 and size 2 Appliances. \$4345.00



Item No.0245A Universal Charging Station. \$495.00



Item No.0246A Charging Station with 2 Charging holders. \$588.50



Item No.0247A Charging station with mixed twin Charging holders \$588.50



Item No.0245B UniversalAppliance (Driver only). \$2090.00



Item No.BAT-GEN 3 Replacement battery for Size 2 Appliance. \$80.00



Friction Clutches ANSI Standard Taper Lock Cone 1:48 Weight: 140g/4.9oz Decimal Metric Item **Nominal** Handle Number Torque Size Range Size Size Price 8-12 0.150-0.230 M4.0-5.5 \$331.50 0221 0 15 Ncm 0222 1/4"-5/16 0.230-0.365 M6.0-8.0 15 Ncm 330.00 3/8"-1/2" 0223 0.365-0.510 M9.0-12.0 2 17 Ncm 335.50 9/16"-3/4" 0224 0.510-0.825 M14.0-18.00 17 Ncm 341.00 3 0225 7/8"-1-1/8 0.825-1.135 M20.0-28.0 17 Ncm 346.50 4

Clutches engineered to fit ANSI/ISO tapers. The clutches are anodize coated for heavy duty use. Standard plug thread members can be used with these clutches. Specially designed Power Thread Gage members are available.



Item No.0444 Stacker Plate Holds 4 or more units. Priced on request.



Item No.0145 Power-Driven Thread Gage Appliance & Charging Station. \$2194.50



Item No.0146
Twin version2 Power-Driven
Thread Gage
Systems
with 1 charging
station and
second charging
holder.
\$3960.00



Item No.0145B Lightweight Appliance (Driver only). \$1705.00



Item No.0145A Universal Charging Station. \$495.00



Item No.0146A Charging Station with 2 Charging holders. \$588.50



Item No.BAT-GEN 3 Replacement battery for Size 2 Appliance. \$80.00



Weight: 40g/1.4oz					1.40	
ltem Number	Nominal Size	Decimal Range	Metric Size	Handle Size	Torque	Price
0121	0-3	0.059-0.105	M1.6-2.2	000	-	\$308.00
0122	4-6	0.105-0.150	M2.5-3.5	00	-	319.00
0123	8-12	0.150-0.230	M4.0-5.5	0	10 Ncm	330.00
0124	1/4"-5/16"	0.230-0.365	M6.0-8.0	1	10 Ncm	341.00

Friction Clutches ANSI Standard Taner Lock Cone 1:48

Clutches engineered to fit ANSI/ISO tapers. The clutches are anodize coated for heavy duty use. Standard thread plug members can be used with these clutches. Specially designed Power Thread Gage members are available.



Item No.0444 Stacker Plate Holds 4 or more units. Priced on request.

SPECIFICATIONS

POWER DRIVEN THREAD GAGING



UNIVERSAL SIZE TWO

- Weight: 612g/21oz
- Dimensions:
 - Dia.=38mm, Length =332mm
- Motor: Rating: 9volts/5Watts
- Max. Torque: 25 Ncm,
- Speed: 300 RPM
- Battery: recharge time: 2 to 4 hours life: 2 to 5 years
 - 8 Cells, Ni/MH, 350 mAh, 9.6V
- Battery exchangeable by Customer



UNIVERSAL CHARGING STATIONS

- Weight: 2.6kg/5.7pounds
- Input: USA:120 VAC (USA), 60Hz, 15VA
 European: 230V AC, 50Hz, 15VA
- Output: Charging Voltage: 11.5V DC/70mA, 9 V DC/1000 mA Permanent Connection



LIGHTWEIGHT SIZE ONE

- Weight: 230g/8oz
- Dimensions:
 - Dia.=27mm, Length=180mm
- Motor: Rating: 2.4volts/2Watts Max. Torque: 12 Ncm, 240 RPM
- Battery: recharge time: 2 to 4 hours life: 2 to 5 years
- 2 Cells, Ni/MH, 1000mAh, 2.4V
- Battery exchangeable by factory only.



LIGHTWEIGHT CHARGING STATIONS

- Weight: 2.6kg/5.7pounds
- Input:USA:120 VAC (USA), 60Hz, 15VA
 European: 230V AC, 50Hz, 15VA
- Output: Charging Volt.:3.5, VDC/70mA

THREAD PLUG GAGES

POWER DRIVE DESIGN

	POWER DRIVE DESIGN						
	THREADS F	PER INC	H (TPI)		GO or NO GO		
Size Dec.	Fraction.	LINC	UNF	UNEF	2B-3B Member		
		UNU		UNLI			
.060	#0 #1	64	80 72		\$88.00 88.00		
.073	#1	56	64		88.00		
.099	#2	48	56		88.00		
.112	#4	40	48		88.00		
.125	#5	40	44		80.00		
.138	#6	32	40		68.00		
.164	#8	32	36		68.00		
.190	#10	24	32		68.00		
.216	#12	24	28		68.00		
.216	#12			32	120.00		
.250	1/4	20	28		60.00		
.250	1/4			32	110.00		
.3125	5/16	18	24		60.00		
.3125	5/16			32	115.00		
.375	3/8	16	24		60.00		
.375	3/8			32	133.00		
.4375	7/16	14	20		63.00		
.4375	7/16			28	133.00		
.500	1/2	13	20		65.00		
.500	1/2		28		140.00		
.5625	9/16	12	18		88.00		
.5625	9/16			24	145.00		
.625	5/8	11	18		88.00		
.625	5/8			24	145.00		
.6875	11/16			24	145.00		
.750	3/4	10	16		98.00		
.750	3/4			20	155.00		
.8125	13/16			20	170.00		
.875	7/8	9	14		100.00		
.875	7/8			20	170.00		
.9375	15/16			20	170.00		
1.000	1	8	12,14		120.00		
1.000	1			20	198.00		
1.0625	1-1/16		12	18	195.00		
1.125	1-1/8	7	12		153.00		
1.125	1-1/8			18	195.00		
1.1875	1-3/16		12	18			
1.250	1-1/4	7	12		_		
1.250	1-1/4			18	PRICED		
1.3125	1-5/16		12	18	ON		
1.375	1-3/8	6	12		REQUEST		
1.375	1-3/8			18	TILQUEST		
1.4375	1-7/16		12	18			
1.50	1-1/2	6	12				
1.50	1-1/2		11045	18			

Long form calibration - add \$15.00 per gage member. SPECIALLY DESIGNED POWER DRIVEN THREAD PLUG GAGES

Unified Thread Series (UNC-UNF-UNEF) Standard (ANSI/ASME B1.2) 'X' Tolerance Class 2B or 3B

Special gages including preplates, multiple lead, ACME, Buttress, extra length, etc. are priced on request. UNJ THREADS: NO EXTRA CHARGE Chrome Gages add 30%

Power Driven Thread Gaging

User friendly and ergonomically designed, the Power Driven Thread Gaging unit inspects threaded parts for size faster than any other process. It is portable for heavy industrial use.

Available in 2 sizes:

Universal Size 2 and Lightweight Size 1



Twin version-2 Power Driven Thread Gage Systems with 1 charging station and second charging holder.



Power Driven Thread Gaging is available with optional thread depth control.



Available with optional Power Cord for continuous use without charging.



Clutches are engineered to fit ANSI/ISO tapers. They are anodize coated for heavy duty use. Standard plug thread members can be used with these clutches.

For special requirements call: 1-800-767-2034

FIXED LIMIT GAGE FACT SHEET

GAGEMAKER'S TOLERANCE CHART								
RANGE	XXXX	XXX	XX	X	Υ	Z	ZZ	
.0009" to.8250"	.000005"	.00001"	.00002"	.00004"	.00007"	.0001"	.00020"	
.8251" to 1.5100"	.000008"	.000015"	.00003"	.00006"	.00009"	.00012"	.00024"	
1.5101" to 2.5101"	.00001"	.00002"	.00004"	.00008"	.00012"	.00016"	.00032"	
2.5101" to 4.5100"	.000013"	.000025"	.00005"	.00010"	.00015"	.00020"	.00040"	
4.5101" to 6.5100"	.000017"	.000033"	.000065"	.00013"	.00019"	.000250"	.00050"	
6.5101" to 9.0100"	.00002"	.00004"	.00008"	.00016"	.00024"	.000320"	.00064"	
9.0101" to 12.260"	.000025"	.00005"	.0001"	.0002"	.0003"	.000400"	.00080"	

METRIC EQUIVALENTS						
RANGE	XX	Х	Y	Z	ZZ	
.74mm to 20.96mm	.00051	.00102	.00178	.00254	.005	
20.96mm to 38.35mm	.00076	.00152	.00229	.00305	.006	
38.35mm to 63.75mm	.00102	.00203	.00305	.00406	.008	
63.75mm to 114.55mm	.00127	.00254	.00381	.00508	.010	
114.55mm to 163.35mm	.00165	.00330	.00483	.00635	.013	
165.35mm to 228.85mm	.00203	.00406	.00610	.00813	.016	
228.85mm to 311.40mm	.00254	.00508	.00762	.01016	.020	

Fixed limit gages are primarily used to check dimensions and geometries. Plug gages check internal dimensions and ring gages check external dimensions. Inspection is performed by use of GO/NOGO gages that represent the Minimum and Maximum limit of the product part characteristic to ensure assembleability and fit. This method is used for both thread gages and cylindrical plain gages.

GO gages passing through a part assure that the maximum material condition of a part has not been exceeded. NOGO gages not passing through the part assure the dimension has not dropped below the minimum material condition.

Fixed limit gages are highly accurate, easy to use, and economical.

HOW TO DETERMINE AND SELECT THE PROPER TOLERANCE FOR YOUR GAGING APPLICATION

The normal rule of practice requires 10% of product tolerance to be divided between the "GO "and" NOGO "gages. For plug gages, a plus tolerance is applied to the GO member and a minus tolerance to the NOGO member. Ring gages receive reverse tolerance direction so that the " GO " member is minus and the " NOGO " is plus tolerance. Applying this practice results in gage tolerance always being included in the part tolerance by up to 10%. This results in the possibility that 10% of good

product could fail inspection but that no bad product

	TOLERANCE DIRECTION	
Type of Gage	GO Member	NOGO Member
Thread plug	Plus	Minus
Plain plug	Plus	Minus
Thread ring gage	Minus	Plus
Plain ring gage	Minus	Plus
Thread Setting Plug	Minus	Plus

When ordering gages, the two basic principles are:

- 1. Do not allow the tolerance of the GO and NOGO gages to consume more than 10% of your product tolerance. The 10% is usually divided equally between the GO and NOGO gages.
- 2. Higher precision gages will accept slightly more product but with less wear life and greater expense.

PROPER CARE AND USAGE OF GAGES

- Part dimensions to be gaged should be cleaned and burr free to prevent gaging interference.
- Gages should be turned or pushed slowly and gently into or onto the dimension being checked. Forcing gages will result in faulty gaging and the possibility of damaging both the part and gage.
- The effects of thermal expansion should be taken into consideration on both the part and the gage. The temperature of the part and the gage should be the same. 68° F is the ideal temperature at which both part and gage should be at when inspected because gages are calibrated at 68° F. This effectively eliminates any error due to thermal expansion.
- Protecting gages from excessive heat, moisture and corrosive chemicals will extend the life of your gages. After use, gages should be cleaned and recoated with a thin-film rust preventative and stored properly.
- Gages should be periodically inspected and calibrated to assure accuracy. Go member gages tend to wear quicker with normal use. NOGO gages will wear on the ends that receive the greatest usage. Frequency of inspection and calibration should be dependent on such factors as the amount of usage, part and gage material, tolerance, and quality procedures.

would ever pass.

CLASS ZZ PLAIN PIN GAGE SETS AND LIBRARIES

Economical and General Purpose Pin Gages

Make quick and accurate measurements with **Vermont Gage** pin gages. Measure hole sizes. Calculate distances between holes. Gage slot widths. Check locations. Use for Go/NoGo gaging. Size in micrometers and snap gages. These gages are essential for anyone making frequent and varied measurements.

- Class ZZ (.0002" or .005mm tolerance)
- Go (Plus) or NoGo (Minus) tolerance
- NIST traceable
- .0005" or .02mm sizes
- .001" or .02mm set increments
- 52100 tool steel; 60/62 Rc
- 2" long

1.31mm to 23.99mm

1.30mm to 25.48mm

1.31mm to 25.49mm

- 10 microinch finish or better
- within .0001" round
- marked with size & direction of tolerance on gages over .060"
- Certificate of Accuracy included



Thread Check offers an

extensive inventory of

Vermont Gage precision

products certified to ISO

9002 and traceable to NIST

Pin gage set



Pin gage library





METRIC SETS (.02MM INCREMENTS)						
No of		Wt.		Black		
Range	Gages	Lbs.	Steel \$	Guard \$		
0.20mm to 1.28mm	55	2	\$78.00	\$86.00		
0.21mm to 1.29mm	55	2	78.00	86.00		
1.30mm to 4.98mm	185	6	172.00	182.00		
1.31mm to 4.99mm	185	6	172.00	182.00		
5.00mm to 9.98mm	250	14	268.00	284.00		
5.01mm to 9.99mm	250	14	268.00	284.00		
10.00mm to 13.98mm	200	24	231.00	241.00		
10.01mm to 13.99mm	200	24	231.00	241.00		
14.00mm to 16.48mm	125	24	295.00	311.00		
14.01mm to 16.49mm	125	24	295.00	311.00		
16.50mm to 18.98mm	125	30	375.00	402.00		
16.51mm to 18.99mm	125	30	375.00	402.00		
19.00mm to 20.98mm	100	32	642.00	696.00		
19.01mm to 20.99mm	100	32	642.00	696.00		
21.00mm to 22.48mm	75	29	535.00	589.00		
21.01mm to 22.49mm	75	29	535.00	589.00		
22.50mm to 23.98mm	75	33	562.00	616.00		
22.51mm to 23.99mm	75	33	562.00	616.00		
24.00mm to 25.48mm	75	36	589.00	632.00		
24.01mm to 25.49mm	75	36	589.00	632.00		
METRIC LIBRARIES	(.02MN	I INCRE	EMENTS)			
.20mm to 13.98mm	690	46	\$953.00	\$990.00		
.21mm to 13.99mm	690	46	953.00	990.00		
.20mm to 18.98mm	940	100	1605.00	1712.00		
.21mm to 18.99mm	940	100	1605.00	1712.00		
.20mm to 22.48mm	1115	161	2996.00	3157.00		
.21mm to 22.49mm.	1115	161	2996.00	3157.00		
.20mm to 25.48mm	1265	230	4387.00	4548.00		
.21mm to 25.49mm	1265	230	4387.00	4548.00		
1.30mm to 16.48mm	760	68	1284.00	1338.00		
1.31mm to 16.49mm	760	68	1284.00	1338.00		
1.30mm to 20.98mm	985	130	2140.00	2221.00		
1.31mm to 20.99mm	985	130	2140.00	2221.00		
1.30mm to 23.98mm	1135	192	3745.00	3852.00		

1135

1210

Black Guard™

- •Prevents rust & corrosion
- Visible wear indicator
- Bright clear marking





INCH SETS (.001" INCREMENTS)						
	No of	Wt.	,,	Black		
Range	Gages	Lbs.	Steel \$	Guard \$		
.0060" to .0600"	55	2	\$86.00	\$91.00		
.0065" to .0605"	55	2	86.00	91.00		
.0110" to .0600"	50	2	65.00	70.00		
.0115" to .0605"	50	2	65.00	70.00		
.0110" to .2500"	240	6	204.00	214.00		
.0115" to .2505"	240	6	204.00	214.00		
.0610" to .2500"	190	6	145.00	156.00		
.0615" to .2505"	190	6	145.00	156.00		
.2510" to .5000"	250	20	214.00	231.00		
.2515" to .5005"	250	20	214.00	231.00		
.5010" to .6250"	125	21	252.00	268.00		
.5015" to .6255"	125	21	252.00	268.00		
.6260" to .7500	125	31	279.00	295.00		
.6265" to .7505"	125	31	279.00	295.00		
.7510" to .8320"	82	27	482.00	509.00		
.7515" to .8325"	82	27	482.00	509.00		
.8330" to .9160"	84	33	562.00	589.00		
.8335" to .9165"	84	33	562.00	589.00		
.9170" to 1.0000"	84	38	589.00	616.00		
.9175" to 1.0005"	84	38	589.00	616.00		
INCH LIBRARIES			NCREMENTS			
.0060" to .6250"	620	49	\$937.00	\$963.00		
.0065" to .6255"	620	49	937.00	963.00		
.0060" to .8320"	827	107	1739.00	1819.00		
.0065" to .8325"	827	107	1739.00	1819.00		
.0060" to 1.000"	995	176	2996.00	3050.00		
.0065" to 1.000"	995	176	2996.00	3050.00		
.0110" to .6255"**	1230	148	1686.00	1766.00		
.0110" to .6250"	615	80	883.00	937.00		
.0115" to .6255	615	80	883.00	937.00		
.0110" to .7500"	740	78	1177.00	1231.00		
.0115" to .7505"	740	78	1177.00	1231.00		
.0110" to .9160"	906	138	2274.00	2354.00		
.0115" to .9165"	906	138	2274.00	2354.00		
.0110" to .1.000"	990	176	2943.00	3023.00		
.0115" to 1.0005"	990	176	2943.00	3023.00		
.0610" to .5005"**	880	80	937.00	963.00		
.0610" to .7500"	690	78	1124.00	1151.00		
.0615" to .7505"	690	78	1124.00	1151.00		
.0610" to .9160"	856	138	2221.00	2301.00		
.0615" to .9165"	856	138	2221.00	2301.00		
.0610" to 1.000"	940	176	2863.00	2943.00		
			BILE LIBRAR			
.0060" to 1.0000"	995		3344.00	3505.00		
.0065" to 1.0005"	995		3344.00	3505.00		
.0110" to 1.0000"	990		3328.00	3478.00		
.0115" to 1.0005"	990		3328.00	3478.00		
.0610" to 1.0000"	940		3237.00	3424.00		
.0615" to 1.0005"	940		3237.00	3424.00		
** Indicates 0005" in						

^{**} Indicates .0005" increments.

Please specify plus or minus tolerance when ordering.

3852.00

4280.00

192 3745.00

1210 228 4066.00 4280.00

228 4066.00

CLASS ZZ REPLACEMENT PIN GAGES & ASSEMBLIES

CLASS ZZ REPLACEMENT PINS Keep old sets in compliance!

Replace missing, damaged, or worn-out Class ZZ gages from your existing sets & Libraries. These replacement pins are perfect in updating your old sets, and bringing them back into compliance. Each pin is individually marked with size and direction of tolerance. Packaged with a rust preventative, these pins maintain an indefinite shelf life; so keep several of your most used sizes on hand! Each pin is NIST traceable and includes a Certificate of Accuracy printed on back of package.

INCH	Member Only	Member Only
Range	Steel \$	Black Guard \$
.0040" to .0105"	\$6.00	\$7.00
.0110" to .0605"	3.00	3.50
.0610" to .5005"	3.00	3.50
.5010" to .6255"	4.00	4.50
.6260" to .7505"	5.00	6.00
.7510" to .8325"	7.00	8.00
.8330" to .9165"	8.00	9.00
.9170" to 1.0005"	9.00	10.00
METRIC		Plack

METRIC Range	Steel \$	Black Guard \$
.20mm to 1.29mm	\$4.00	\$4.00
1.30mm to 4.99mm	3.00	4.00
5.00mm to 9.99mm	3.00	4.00
10.00mm to 13.99mm	4.00	5.00
14.00mm to 16.49mm	5.00	6.00
16.50mm to 18.99mm	6.00	6.50
19.00mm to 20.99mm	7.00	8.00
21.00mm to 22.49mm	9.00	9.50
22.50mm to 23.99mm	10.00	11.00
24.00mm to 25.49mm	10.00	11.00

Black Guard™

· Prevents rust and corrosion

INCH

- · Visible wear indicator
- Bright clear marking
- Longer gage life

CLASS ZZ ASSEMBLIES

A great Go/NoGo inspection Tool. Purchase your Class ZZ gages factory assembled in a handle for production gaging. Class ZZ assemblies are economical and very versatile for Go/ NoGo gaging. If the Go (Green End) fits and the NoGo (Red End) doesn't, your part passes inspection. It doesn't get any easier! Each assembly includes 1 line (up to 15 characters) of custom marking.

Black Guard™

inon	Single Double End End		Single End	Double End
Range	Ass'y	Ass'y	Ass'y	Ass'y
.0040" to .0105"	\$12.00	\$19.00	\$13.00	\$21.00
.0110" to .0755"	9.00	13.00	10.00	14.00
.0760" to .1805"	10.00	14.00	11.00	15.00
.1810" to .2815"	10.00	15.00	11.00	15.00
.2820" to .4065"	11.00	15.00	11.00	16.00
.4070" to .5005"	13.00	17.00	13.00	18.00
.5100" to .6255"	17.00	23.00	18.00	25.00
.6260" to .7505"	20.00	26.00	20.00	28.00
.7510" to .8325"	28.00	38.00	29.00	38.00
.8330" to .9165"	29.00	40.00	30.00	41.00
.9170" to 1.0005"	30.00	41.00	21.00	43.00
METRIO		la al	Disale	ConsulTM

Steel

.9170" to 1.0005"	30.00	41.00	21.00	43.00
METRIC Range	Single End Ass'y	teel Double End Ass'y	Black Single End Ass'y	Guard™ Double End Ass'y
.20mm to 1.29mm	\$10.00	\$15.00	\$10.00	\$16.00
1.30mm to 4.56mm	10.00	14.00	10.00	16.00
4.57mm to 7.14mm	10.00	16.00	11.00	17.00
7.15mm to 9.99mm	12.00	17.00	12.00	18.00
10.00mm to 12.94mm	14.00	20.00	14.00	23.00
12.95mm to 16.12mm	19.00	26.00	19.00	27.00
16.13mm to 18.99mm	20.00	28.00	21.00	29.00
19.00mm to 19.30mm	22.00	29.00	21.00	31.00
19.31mm to 22.49mm	29.00	40.00	30.00	42.00
22.50mm to 23.99mm	30.00	42.00	31.00	44.00
24.00mm to 25.49mm	32.00	44.00	33.00	47.00



Replacement Pins packaged in rustpreventative and individually labeled with size, tolerance direction, and NIST traceable numbers.





Double End Assembly



Single End Assembly

STANDARD CLASS X PLUG GAGES Value priced and stocked

STANDARD CLASS X PLUG GAGES Sizes up to 1"

Use as masters to calibrate measuring equipment or to gage parts directly. Either way, these Class X (+.00004", -.0000") plug gages are accurate, cost effective measurement standards perfect for both the shop floor and metrology laboratory. Included with Certificate of Calibration traceable to NIST.

Thread Check offers an extensive inventory of **Vermont Gage precision** products certified to ISO 9002 and traceable NIST

- Class X
- Single (G0) tolerance (+.00004, -.00000) (plus .00006,-.00000 .8251 - 1.000")
- NIST traceable
- Sizes available every .0001"up to 1.0000"
- Tool Steel; 60/62Rc (Cold Stabilized)
- 2" long
- 2 microinch finish or better
- Within .00002" round
- Certificate of Accuracy included
- Long Form Calibration available at an additional charge







INCH	REVERSIBLE GAGE HANDLES						
	Single-End		Double-End	i			
	Handle		Handle				
Range	Handle No.	Price	Handle No.	Price			
.0040" to .0750"	1WSE	\$4.50	1WDE	\$5.00			
.0751" to .1800"	2WSE	5.00	2WDE	5.50			
.1801" to .2810"	3WSE	5.75	3WDE	6.25			
.2811" to .4060"	4WSE	6.00	4WDE	6.75			
.4061" to .5100"	5WSE	8.25	5WDE	9.00			
.5101" to .6350"	6WSE	10.75	6WDE	11.50			
.6351" to .7600"	7WSE	11.75	7WDE	12.50			
.7601" to 1.0100"	7WSE	19.00	7WDE	20.00			
METRIC							
.10mm to1.90mm	1WSE	\$5.50	1WDE	\$5.00			
1.91mm to 4.56mm	2WSE	5.00	2WDE	5.50			
4.57mm to 7.14mm	3WSE	5.75	3WDE	6.25			
7.15mm to 10.30mm	4WSE	6.00	4WDE	6.75			
10.31mm to 12.94mm	5WSE	8.25	5WDE	9.00			
12.95mm to 16.12mm	6WSE	10.75	6WDE	11.50			
16.13mm to 19.30mm	7WSE	11.75	7WDE	12.50			
19.31mm to 25.64mm	8WSE	19.00	8WDE	20.00			

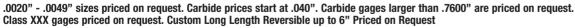
BUSHING PRICES

Up to .5100"	\$2.00
.5101" and Up	3.00

CALL 800-767-7633

CUSTOM REVERSIBLE PLAIN PLUG GAGES

		S	TEE		CH	IRO		C/		IDE	
	TOLERANCE	PRICE MEMBER	PRICE SINGLE- END	PRICE DOUBLE- END	PRICE MEMBER	PRICE SINGLE- END	PRICE DOUBLE- END	PRICE MEMBER	PRICE SINGLE- END	PRICE DOUBLE-END	
RANGE	CLASS	ONLY		ASSEMBLY	ONLY	ASSEMBLY	ASSEMBLY	ONLY	ASSEMBLY	ASSEMBLY	
005"1. 045"	XX	\$65.00	\$75.00	\$140.00							
.005" to 015"	Х	56.00	66.00	122.00							
.11mm to .38mm	Y 777	45.00	55.00	100.00	CALL FOR PRICES						
	Z,ZZ	40.00	50.00	90.00		CAL	l FO	RP	RICE	S	
	XX	45.00	55.00	100.00						-0	
.0151" to .0300	X	20.00	30.00	50.00							
.381mm to .76mm	Υ	17.00	27.00	44.00							
	Z,ZZ	13.00	23.00	36.00						·	
	XX	24.00	34.00	58.00	35.00	45.00	80.00	68.00	79.00	147.00	
.0301" to .0750"	Х	13.00	23.00	36.00	28.00	38.00	66.00	62.00	73.00	135.00	
.761mm to 1.91mm	Y	10.00	20.00	30.00	25.00	35.00	60.00	58.00	69.00	127.00	
	Z,ZZ	7.00	17.00	24.00	23.00	33.00	56.00	55.00	66.00	121.00	
	XX	26.00	36.00	62.00	36.00	46.00	82.00	53.00	64.00	117.00	
.0751" to .1800"	Х	14.00	24.00	38.00	31.00	41.00	72.00	50.00	61.00	111.00	
1.911mm to 4.57mm	Υ	10.00	20.00	30.00	27.00	37.00	64.00	45.00	66.00	111.00	
	Z,ZZ	7.00	17.00	24.00	24.00	34.00	58.00	40.00	51.00	91.00	
	XX	26.00	36.00	62.00	38.00	48.00	86.00	55.00	67.00	122.00	
.1801" to .2810" 4.571mm to 7.14mm	Χ	17.00	27.00	44.00	33.00	43.00	76.00	52.00	64.00	116.00	
	Υ	11.00	21.00	32.00	31.00	41.00	72.00	49.00	61.00	110.00	
	Z,ZZ	8.00	18.00	26.00	27.00	37.00	64.00	46.00	58.00	104.00	
	XX	28.00	38.00	66.00	40.00	50.00	90.00	75.00	87.00	162.00	
.2811" to .4060"	Χ	17.00	27.00	44.00	35.00	45.00	80.00	70.00	82.00	152.00	
7.141mm to 10.31mm	Υ	12.00	22.00	34.00	33.00	43.00	76.00	69.00	81.00	150.00	
	Z,ZZ	8.00	18.00	26.00	30.00	40.00	70.00	67.00	79.00	146.00	
	XX	30.00	40.00	70.00	43.00	54.00	97.00	85.00	98.00	183.00	
.4061" to .5100"	Χ	18.00	28.00	46.00	38.00	49.00	87.00	83.00	96.00	179.00	
10.311mm to 12.95mm	Υ	13.00	23.00	36.00	33.00	44.00	77.00	74.00	87.00	161.00	
	Z,ZZ	9.00	19.00	28.00	28.00	39.00	67.00	71.00	84.00	155.00	
	XX	33.00	43.00	76.00	48.00	61.00	109.00	115.00	129.00	244.00	
.5101" to .6350"	Х	19.00	29.00	48.00	40.00	53.00	93.00	107.00	121.00	228.00	
12.951mm to 16.13mm		15.00	25.00	40.00	36.00	49.00	85.00	105.00	119.00	224.00	
	Z,ZZ	10.00	20.00	30.00	30.00	43.00	73.00	•	116.00	218.00	
	XX	35.00	45.00	80.00	51.00	64.00	115.00	149.00		312.00	
.6351" to .7600"	X	22.00	32.00	54.00	42.00	55.00	97.00	141.00	155.00	296.00	
16.131mm to 19.30mm		17.00	27.00	44.00	38.00	51.00	89.00	139.00		292.00	
	Z,ZZ	12.00	22.00	34.00	33.00	46.00	79.00	136.00		286.00	
	XX	53.00	63.00	116.00	72.00	92.00	164.00	100.00	100.00	200.00	
.7601" to 1.0100"	X	28.00	38.00	66.00	66.00	86.00	152.00				
19.301mm to 25.65mm						80.00	140.00	CALL FOR PR		PRICES	
19.50111111 to 25.6511111		22.00	32.00	54.00	60.00						
	Z,ZZ	16.00	26.00	42.00	55.00	75.00	130.00				



Special Features Priced on Request

Depth notches or steps are available on plug gages for gaging depth and diameter

Air flats or pressure relief flats are available which allow air or fluid to escape when gaging blind holes

Pilots which allow easy entry into hole diameter

Radius and Chamfers to customer specifications

Diamond Shaped NOGO Members for checking out of roundness

Special Gages Priced on Request

- Hex Plug Gages per ANSI B18.3 and ANSI/ASME 107.17M
 Square Gages Hole Location Gages
- Concentricity Gages Flush Pin Gages
 Alignment Gages
 Template Gages
- Tapered Gages including Brown & Sharpe, Jarno, Morse, National Machine Tapers
 Special Gages per Customer Drawing



- · All gages are made of quality tool steel hardened between 60/62 Rockwell.
- All gages are two inches long except when noted
- All gages are ground, lapped to a 5 micro inch finish or better
- All gages are traceable to the National Institute of Standards and Technology.
- Long Form Calibration available at an additional charge





CUSTOM REVERSIBLE MICRO SIZE PLAIN PLUG GAGES

STEEL REVERSIBLE PINS - 2" LONG							
SIZE RANGE INCH/ METRIC SIZE	CLASS	PRICE					
	XX	_					
0015" to 0010"	Χ	\$355.00					
.0015" to .0019"	Υ	320.00					
.03011111 to .030111111	Z	295.00					
	ZZ	275.00					
	XX	265.00					
0000" to 0000	Χ	245.00					
.0020" to .0029	Υ	210.00					
.03111111110.07311111	Z	185.00					
	ZZ	165.00					
	XX	225.00					
0000" +- 0000"	Χ	195.00					
.0030" to .0039"	Υ	165.00					
.076111111 10 .101111111	Z	135.00					
	ZZ	115.00					
	XX	185.00					
0040" +- 0040"	Х	145.00					
.0040" to .0049"	Υ	120.00					
.10211111 (0 .12411111	Z	100.00					
	ZZ	95.00					

CUSTOM REVERSIBLE CLASS XXX TOLERANCE PLAIN PLUG GAGES

STEEL REVERSIBLE PINS - 2" LONG CLASS XXX - MEMBER ONLY SIZE/RANGE							
INCH	METRIC	PRICE					
.0050" to .0149"	.127mm to .380mm	\$195.00					
.0150" to .0299"	.381mm to .761mm	90.00					
.0300" to .0749"	.762mm to 1.904mm	48.00					
.0750" to .2819"	1.905mm to 7.162mm	52.00					
.2820" to .4069"	7.163mm to 10.337mm	56.00					
.4070" to .5109"	10.338mm to 12.979mm	60.00					
.5110" to .6359"	12.980mm to 16.513mm	66.00					
.6360" to .7599"	16.514mm to 19.303mm	70.00					
.7600" to 1.0000"	19.304mm to 25.40mm	106.00					



- All gages are made of quality tool steel hardened between 60/62 Rockwell.
- All gages are two inches long except when noted
- All gages are ground, lapped to a 5 micro inch finish or better
- All gages are traceable to the National Institute of Standards and Technology.
- Long Form Calibration available at an additional charge



Custom Long Length Reversible up to 6" Priced on Request

Special Features Priced on Request

Depth notches or steps are available on plug gages for gaging depth and diameter

Air flats or pressure relief flats are available which allow air or fluid to escape when gaging blind holes Pilots which allow easy entry into hole diameter

Radius and Chamfers to customer specifications

Diamond Shaped NOGO Members for checking out of roundness

Special Gages Priced on Request

- Hex Plug Gages per ANSI B18.3 and ANSI/ASME 107.17M
- Square Gages
 Hole Location Gages
- Concentricity Gages Flush Pin Gages
- Alignment Gages
- Template Gages
- Tapered Gages including Brown & Sharpe, Jarno, Morse, National Machine Tapers
- Special Gages per Customer Drawing





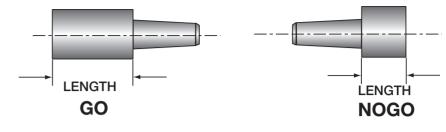


TAPERLOCK PLUG GAGES

Taperlock plug gages are used to gage large diameters.

Taperlock style gages can be quickly changed by popping out the gage member and quickly press fitting a new member into the handle.





All Cylindrical Taperlock plug gages are manufactured to ASME/ANSI B47.1 AGD standard and ASME/ANSI B89.1.5 standard. Gaging surface is hardened to Rc 60-62.

GO

NOGO HANDLE

TOLERANCE



Unilateral Tolerance GO - Plus Tolerance NOGO – Minus Tolerance

Chrome Plated – Add 30%

Carbide gages priced on request.

XXX Add 100% to XX prices up to 1.510".

Quantity discounts available on identical units.

Larger diameters quoted on request

All Taperlock gages are ring lapped to size and polished.

Use reversible style gages for sizes below .105 diameter.

Use Trilock style gages for sizes above 1.5100"







SIZE - RANGE	CLASS	LENGTH	MEMBER	LENGTH	MEMBER	NO.	PRICE
	XX		\$55.00		\$54.00		
.1050"1500"	Х	3/8"	43.00	7/32"	42.00	00	ф11 OO
2.67mm - 3.81mm	Υ	9.5mm	40.00	5.6mm	39.00	00	\$11.00
	Z		38.00		37.00		
	XX		55.00		54.00		
.1501"2300"	Х	13/32"	43.00	9/32"	42.00	0	11.00
3.811mm - 5.84mm	Υ	10.3mm	40.00	7.1mm	38.00		11.00
	Z		38.00		37.00		
	XX		55.00		54.00		
.2301"3650"	Х	3/4"	43.00	5/16	42.00	1	11.00
5.841mm - 9.27mm	Y	19.1mm	41.00	7.1mm	39.00] '	11.00
	Z		39.00		37.00		
	XX		57.00		55.00		
.3651"5100"	Х	1"	44.00	3/8"	43.00	2	11.00
9.271mm - 12.95mm	Y	25.4mm	41.00	9.5mm	40.00		11.00
	Z		39.00		38.00		
	XX		61.00		60.00		
.5101"8250"	Х	1-1/4"	47.00	1/2"	46.00		11.00
12.951mm - 20.96mm	Y	31.8mm	45.00	12.7mm	43.00		11.00
	Z		43.00		41.00		
	XX		63.00		61.00		
.8251" - 1.135"	Х	1-1/2"	48.00	5/8"	47.00	4	12.00
20.961mm - 28.83mm	Y	38.1mm	45.00	15.9mm	44.00		12.00
	Z		42.00		40.00		
	XX		65.00		64.00		
1.1351" - 1.5100"	Х	1-5/8"	51.00	3/4"	50.00	5	12.00
29.831mm - 38.35mm	Y	41.3mm	49.00	19.1mm	47.00		12.00
	Z		47.00		45.00		

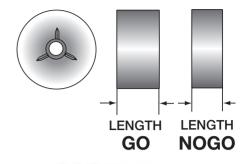
Long Form Calibration available at an additional charge.

TRILOCK PLUG GAGES

All Cylindrical Trilock plug gages are manufactured to ASME/ANSI B47.1 AGD standard and ASME/ANSI B89.1.5 standard. Gaging surface is hardened to Rc 60-62.

	TOLERANCE		GO		NOGO	HANDLE	
SIZE - RANGE	CLASS	LENGTH	MEMBER	LENGTH		NO.	HANDLE
	XX		\$68.00		\$67.00		
.7600"9470"	X	1-1/4	53.00	3/4"	52.00	2-1/2	\$14.00
19.30mm-24.05mm	Y	31.8mm	50.00	19.1mm	49.00	2 1/2	ψ14.00
	Z		48.00		47.00 74.00		
.9471" – 1.135"	XX	1-3/8"	75.00 55.00	3/4"	53.00		
24.051mm-28.83mm	Ŷ	34.9mm	53.00	19.1mm	50.00	3-1/2	14.00
24.001111111 20.00111111	Ž	04.5111111	51.00	13.111111	49.00		
	XX		70.00		68.00		
1.1351" – 1.510"	X	1-1/2"	55.00	3/4"	53.00	4-1/2	15.00
28.831mm-38.35mm	Y	38.1mm	53.00	19.1mm	50.00	7 1/2	10.00
	Z XX		51.00 94.00		49.00 90.00		
1.5101" – 2.010"	X	1-7/8"	73.00	7/8"	70.00		
38.351mm-51.05mm	Ϋ́	47.6mm	68.00	22.2mm	66.00	5-1/2	17.00
30.33111111-31.0311111	Ż	47.0111111	64.00	22.2111111	62.00		
	XX		114.00		102.00		
2.0101" – 2.510"	Х	2"	85.00	7/8"	78.00	6	18.00
51.051mm-63.75mm	<u>Y</u>	50.8mm	80.00	22.2mm	74.00	"	10.00
	Z		78.00		73.00		
2.5101" – 3.010"	XX	2"	125.00 105.00	1"	114.00 86.00		
63.751mm-76.45mm	Y	50.8mm	89.00	25.4mm	76.00	7	19.00
03.73111111-70.4311111	Z	30.011111	81.00	23.4111111	75.00		
	XX		180.00		150.00		
3.0101" – 3.510"	Х	2"	148.00	1"	115.00	7	19.00
76.451mm-89.15mm	Y	50.8mm	140.00	25.4mm	110.00	'	19.00
	Z		137.00		108.00		
3.5101" – 4.010"	XX	2-1/8"	192.00	1"	154.00		
	X Y		151.00 143.00	25.4mm	120.00 115.00	7	19.00
89.151mm-101.85mm	Z	54.0mm	137.00	23.4111111	105.00		
	XX		210.00		165.00		
4.0101" – 4.510"	Х	2-1/8"	171.00	1"	135.00	7	19.00
101.851mm-114.55mm	Y	54.0mm	168.00	25.4mm	124.00	_ ′	19.00
	Z		164.00		120.00		
4.5101" – 5.010"	XX	2-1/8"	262.00	1"	192.00		
114.551mm-127.25mm	X Y	54.0mm	203.00 195.00	25.4mm	157.00 148.00	7	19.00
114.55111111-127.2511111	Z	34.0111111	174.00	23.4111111	139.00		
	XX		269.00		224.00		
5.0101" - 5.510"	Х	2-1/8"	210.00	1"	173.00	7	19.00
127.251mm-139.95mm	Y	54.0mm	198.00	25.4mm	168.00	'	19.00
	Z		191.00		146.00		
5.5101" - 6.010"	XX	2-1/8"	280.00 218.00	1"	256.00 204.00		
139.951mm-152.65	Ŷ		205.00	25.4mm	188.00	7	19.00
139.93111111-132.03	7	54.0mm	203.00	23.4111111	184.00		
	XX		293.00		281.00		
6.0101" - 6.510"	X	2 1/8"	225.00	1"	198.00	7	10.00
152.651mm-165.35mm	Y	54.0mm	216.00	25.4mm	183.00	7	19.00
	Z		212.00		181.00		
0.5101" 7.010"	XX	0.1/0"	445.00	4 "	290.00		
6.5101" – 7.010"	X	2 1/8"	340.00	1"	216.00	7	19.00
165.351mm-178.05mm	Y Z	54.0mm	329.00 320.00	25.4mm	213.00 207.00		
	XX		453.00	-	310.00		
7.0101" – 7.510"	X	2 1/8"	354.00	1"	284.00	_	10.00
178.051mm-190.75mm		54.0mm	337.00	25.4mm	268.00	7	19.00
	Z		333.00		260.00		
7.5104" - 2.225	XX	0.4 (0.11	468.00	4	340.00		
7.5101" – 8.010"	X	2 1/8"	373.00	1"	310.00	7	19.00
190.751mm-203.45mm	Y 7	54.0mm	354.00	25.4mm	296.00	'	
	<u>Z</u>		347.00	<u> </u>	263.00		

Long Form Calibration available at an additional charge.





Trilock gages are used to inspect large diameters. Like reversible gages, when one end wears out, the gage end can be turned around. This design significantly increases the gaging life of the gage. Gage members are securely attached to the trilock handle with mounting bolts.

Unilateral Tolerance GO – Plus Tolerance NOGO – Minus Tolerance Chrome Plated – Add 30%

Carbide priced on request.

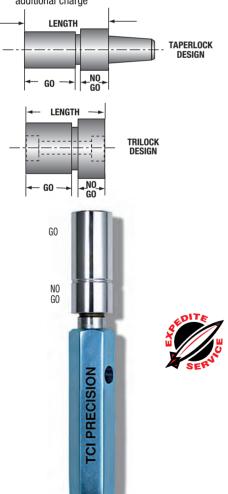
XXX Add 100% to XX prices up to 1.510". Quantity discounts available on identical units.

Larger diameters quoted on request

PROGRESSIVE CYLINDRICAL PLUG GAGES

Quick GO/NOGO checking
Progressive plug gages are your
best choice for checking parts
quickly. Both the GO and NOGO
diameters are stepped on a single
gage member, so parts can be
inspected in one operation. Members
are securely attached to either a
Taperlock handle or Trilock handle
with mounting bolts. Progressive
plug gages are available up to 8" in
all class tolerances and materials.

- Class XX,X,Y,Z or ZZ
- Go, NoGo tolerances
- NIST traceable
- Tool Steel; 60/62 Rc (Cold Stabilized), Chrome Plated tool steel; 70/72 Rc
- 2 microinch finish or better on Class XX,X
- up to 1.5100" and over Trilock style
- Certificate of Accuracy included
- Long Form Calibration available at an additional charge



	TAPERLOCK STYLE									
0175	A 0.0	TOI EDANOE	LENOTH	DDIOE	HANDLE					
	.ASS	TOLERANCE	LENGTH	PRICE	PRICE					
——	XX	.000020"	Go 3/8	\$90.00	\$11.00					
.1050"1500"	X	.000040"	NoGo 7/32	84.00	11.00					
2.670mm - 3.810mm	Υ	.000070"	Length 23/32	77.00	11.00					
	Z	.0001"		76.00	11.00					
	XX	.000020"	Go 13/32	90.00	11.00					
.1501"2300" 3.811mm - 5.840mm	X Y	.000040"	NoGo 9/32	77.00	11.00					
3.611111111 - 5.640111111	Z	.000070" .0001"	Length 13/16	75.00 73.00	11.00 11.00					
	XX	.00001		92.00	11.00					
.2301"3650"	X	.000040"	Go 3/4	80.00	11.00					
5.841mm - 9.270mm	Υ	.000040	NoGo 5/16	76.00	11.00					
3.041111111 - 9.27011111	Z	.0001"	Length 1-3/16	74.00	11.00					
	XX	.000020"		93.00	11.00					
	X	.000040"	Go 1.0	81.00	11.00					
9.271mm - 12.950mm	Y	.000070"	NoGo 3/8	76.00	11.00					
0.27 111111 12.00011111	Z	.0001"	Length 1-1/2	75.00	11.00					
,	XX	.000020"		98.00	11.00					
	X	.000040"	Go 1-1/4	88.00	11.00					
12.951mm - 20.960mm	Υ	.000070"	NoGo 1/2	81.00	11.00					
12.00111111 20.00011111	Z	.0001"	Length 1-7/8	79.00	11.00					
	XX	.000030"		111.00	12.00					
	X	.000060"	Go 1-3/8	95.00	12.00					
20.961mm - 28.830mm	Υ	.000090"	NoGo 5/8	91.00	12.00					
	Z	.00012"	Length 2-1/8	89.00	12.00					
	XX	.000030"	0	127.00	12.00					
1.1351" - 1.5100"	Χ	.000060"	Go 1-1/2	98.00	12.00					
28.831mm - 38.350mm	Υ	.000090"	NoGo 3/4	93.00	12.00					
	Z	.00012"	Length 2-3/8	91.00	12.00					
	TR	ILOCK STYL	E							
	XX	.000040"	0 1 = 10	174.00	17.00					
1.5101" - 2.0100"	X	.000080"	Go 1-7/8	158.00	17.00					
38.351mm - 51.050mm	Υ	.00012"	NoGo 7/8	150.00	17.00					
	Z	.00016"	Length 2-7/8	147.00	17.00					
	XX	.000040"	0.00	220.00	18.00					
2.0101" - 2.5100"	Χ	.000080"	Go 2.0	184.00	18.00					
51.051mm - 63.750mm	Υ	.00012"	NoGo 7/8	176.00	18.00					
	Z	.00016"	Length 3	172.00	18.00					
	XX	.000050"	0- 0 0	268.00	19.00					
2.5101" - 3.0100"	Χ	.0001"	Go 2.0	210.00	19.00					
63.751mm - 76.450mm	Υ	.00015"	NoGo 7/8	189.00	19.00					
	Z	.0002"	Length 3	183.00	19.00					
	XX	.000050"	Co 0 1/0	298.00	19.00					
3.0101" - 3.5100"	Χ	.0001"	Go 2-1/8	245.00	19.00					
76.451mm - 89.150mm	Υ	.00015"	NoGo 7/8	214.00	19.00					
	Ζ	.0002"	Length 3-1/18	201.00	19.00					
	XX	.000050"	Go 2-1/8	379.00	19.00					
3.5101" - 4.0100"	Χ	.0001"		286.00	19.00					
89.151mm - 101.850mm	Υ	.00015"	NoGo 7/8	248.00	19.00					
	Z	.0002"	Length 3-1/18	243.00	19.00					
	XX	.000050"	Go 2-1/8	426.00	19.00					
4.0101" - 4.5100"	Χ	.0001"	NoGo 7/8	326.00	19.00					
101.851mm - 114.550mm	Υ	.00015"	Length 3-1/8	275.00	19.00					
	Z	.0002"	Lengin 3-1/6	267.00	19.00					

CUSTOM HEX PLUG GAGES

D.E. HEX GAGES TO		
ANSI B18.3		
FRACTIONAL SIZES		
SIZE	PRICE	
0.028	\$297.00	
0.035	283.00	
0.05	246.00	
1/16	246.00	
5/64	246.00	
3/32	246.00	
7/64	246.00	
1/8	215.00	
9/64	215.00	
5/32	215.00	
3/16	215.00	
7/32	215.00	
1/4	215.00	
5/16	225.00	
3/8	234.00	
7/16	234.00	
1/2	234.00	
9/16	256.00	
5/8	256.00	
3/4	265.00	
7/8	293.00 319.00	
DAICT		
MET		
0.70mm	\$299.00	
0.90mm	283.00	
1.30mm	246.00	
1.50mm	246.00	
2.00mm 2.50mm	246.00 246.00	
3.00mm	215.00	
4.00mm	215.00	
5.00mm	215.00	
6.00mm	215.00	
8.00mm	215.00	
10.00mm	225.00	
12.00mm	234.00	
14.00mm	234.00	
17.00mm	256.00	
19.00mm	266.00	
22.00mm	293.00	
44.00111111		

Go member - Hex shape NoGo member - Rectangular shape

24.00mm

319.00

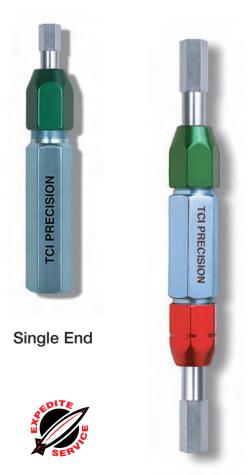
	GAGES TO
ANSI/ASME	B107.17M
FRACTION	IAL SIZES
SIZE	PRICE
1/8	\$215.00
5/32	215.00
3/16	215.00
13/64	215.00
7/32 15/64	215.00 215.00
1/4	215.00
9/32	224.00
5/16	224.00
11/32	224.00
3/8	224.00
1/2	224.00
9/16 19/32	224.00 224.00
5/8	232.00
21/32	232.00
11/16	232.00
3/4	232.00
25/32	257.00 257.00
13/16	
7/8	257.00
15/16	257.00
1-1/16	257.00 285.00
1-1/18	285.00
1-3/16	285.00
1-1/4	285.00
1-5/16	310.00
1-3/8	342.00
1-7/16	376.00
1-1/2	382.00
1-9/16	382.00
1-5/8 1-11/16	382.00 382.00
1-3/4	382.00
1-13/16	441.00
1-7/8	441.00
1-15/16	441.00
2	441.00
2-1/16	441.00
2-1/8	441.00
2-3/16	473.00
2-1/4 2-5/16	473.00 473.00
2-3/10	473.00
2-7/16	498.00
2-1/2	498.00
2-9/16	498.00
2-5/8	498.00
2-11/16	498.00
2-3/4	574.00
2-13/16 2-7/8	574.00 574.00
2-1/6	574.00
3	574.00

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Thread Check, Inc. offers a complete line of GO/NOGO Hex plug gages manufactured to both specs ANSI/ASME B107.17M and ANSI B18.3. Special diameter Hex gages are also available. Hex gages are perfect for inspecting machine head fasteners.

- ANSI/ASME B107.17M
- ANSI B18.3
- Go, NoGo Class Z tolerances
- NIST traceable
- Tool Steel: 60/62 Rc (Cold Stabilized)
- · Certificate of Accuracy included
- Long Form Calibration available at an additional charge

Prices are for complete Double end Go & NoGo assemblies.



Double End





Use plain ring gages for masters and GO/NOGO gaging.

Use plain ring gages to efficiently inspect external dimensions of manufactured parts.

With GO/NOGO ring gages, an inspector can quickly pass/fail parts without taking time consuming readings from a measuring instrument.

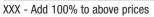
Plain ring gages are also ideal for use as masters for setting bore gages, air gages, and internal micrometers. By using the same size master ring gage, lead error on measurements can be eliminated.

DIRECTION OF TOLERANCES

MASTER - Bilateral (Split) Tolerance GO - Unilateral (Minus) Tolerance NOGO - Unilateral (Plus) Tolerance

- Ring gages manufactured in accordance with ANSI Specification B89.1.6-1981.
- Gage blanks meet all requirements of B47.1-1981
- . All ring gages regardless of size are lapped and polished.
- Non-gaging areas are black oxided and ring faces are surface ground.
- Rings above 5.510 will not include tapped holes for ball handles unless specified.
- Roundness and taper of all gages will not exceed 50% of the applicable gagemaker's size tolerance and are non-accumulative.
- XXX rings add 100% to XX prices for sizes up to 1.5101 inches.
- Larger sizes priced on request.
- Call for quantity discounts.

LONG FORM CALIBRATION		
SIZE	PRICE	
.015" – .03999"	priced on request	
.040" - 5.510"	\$15.00	
5.5101" – 11.000"	\$20.00	
11.001 – 15.000"	\$30.00	
15.001 – 22.000"	\$75.00	
Above 22.00"	priced on request	





PLAIN RING GAGES

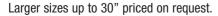
		STANDARD A.G.D.		
SIZE-RANGE	CLASS	BLANK SIZE LENGTH/O.D.	STEEL	CHROME
.015 in.	XX	#000 Blank	\$275.00	
To .025 in	X	3/32 15/16"	220.00	S
0.381mm To 0.635mm	<u>ү</u> 7	2.38mm 23.8 mm	210.00 210.00	SALL FOR PRICES
.0251 in	XX	#000 Blank	250.00	2
To .040 in	X	3/32 15/16	210.00	E
0.636mm To 1.02mm	Z Y	2.38mm 23.8 mm	200.00 200.00	~ H
.0401 in.	XX	#00 Blank	160.00	느
to .070 in.	X	3/16" 15/16"	130.00	$\stackrel{H}{\sim}$
1.021 mm to 1.78 mm	7 7	4.8mm 23.8 mm	125.00 125.00	
.0701 in.	XX	#00 Plank	140.00	J
to .150 in.	X	#00 Blank 3/16" 15/16"	120.00	\sim
1.781 mm	Z	4.8mm 23.8mm	115.00	
to 3.81 mm .1501 in.	XX		113.00 103.00	120.00
to .230 in.	Х	#0 Blank 3/8" 15/16"	90.00	107.00
3.811 mm	Y	9.5mm 23.8mm	88.00	103.00
to 5.84 in. .2301 in.	Z XX		86.00 93.00	100.00 108.00
to .365 in.	X	#1 Blank	83.00	96.00
5.841 mm	Υ	9/16" 1-1/8" 14.3mm 28.6mm	78.00	91.00
to 9.27 m .3651 in.	Z XX		75.00 93.00	89.00 109.00
to .510 in.	X	#2 Blank	86.00	98.00
9.271 mm	Υ	3/4" 1-3/8" 19.1mm 34.9mm	83.00	95.00
to 12.95 mm	Z	19.111111 34.911111	81.00	92.00
.5101 in. to .825 in.	XX	#3 Blank	96.00 88.00	116.00 103.00
12.951mm	Υ	15/16" 1-3/4"	85.00	98.00
to 20.96 mm	Z	23.8mm 44.4mm	83.00	94.00
.8251 in. to 1.135 in.	XX	#4 Blank	101.00 93.00	115.00 103.00
20.961mm	Ŷ	1-1/8" 2-1/8"	90.00	100.00
to 28.83mm	Z	28.6mm 54.0mm	88.00	98.00
1.1351 in. to 1.510 in.	XX	#5 Blank	110.00 92.00	143.00 120.00
28.831mm	Ŷ	1-5/16" 2-1/2"	88.00	115.00
to 38.35mm	Z	33.3mm 63.5mm	85.00	111.00
1.5101 in.	XX	#6 Blank	133.00	168.00
to 2.010 in. 38.351mm	X Y	1-1/2" 4	122.00 115.00	158.00 150.00
to 51.05mm	Ż	38.1mm 101.6mm	107.00	139.00
2.0101 in.	XX	#7 Blank	173.00	225.00
to 2.510 in. 51.051mm	X	1-1/2" 4-1/2"	145.00 136.00	189.00 177.00
63.75mm	Z	38.1mm 114.3mm	130.00	177.00
2.5101 in.	XX	#8 Blank	200.00	260.00
to 3.010 in. 63.751mm	X Y	1-1/2" 5"	173.00	225.00 191.00
to 76.45mm	Z	38.1mm 127.00mm	147.00 145.00	189.00
3.0101 in.	XX	#9 Blank	233.00	303.00
to 3.510 in.	X	1-1/2" 5-1/2"	202.00	263.00
76.451mm to 89.15mm	Z	38.1mm 139.7mm	179.00 171.00	233.00 222.00
3.5101 in.	XX	#10 Blank	266.00	346.00
to 4.010 in.	X	1-1/2" 6-3/8"	220.00	286.00
89.151mm to 101.85 in.	Z	38.1mm 161.9mm	205.00 200.00	267.00 260.00
4.0101 in.	XX	#11 Blank	298.00	388.00
to 4.760 in.	Х	#11 blallk 1-1/2" 7-1/4"	265.00	345.00
101.851mm	Z	38.1mm 184.2mm	235.00	306.00
to 120.90mm 4.7601 in.	XX		230.00 399.00	300.00 519.00
to 5.510 in.	Х	#12 Blank 1-1/2" 8-1/4"	335.00	436.00
120.901mm	Y 7	38.01mm 209.6mm	310.00	403.00
to 139.95mm	Z	23.0 200.0	300.00	390.00

continued on next page

PLAIN RING GAGES

continued from previous page

continued from p	revious p	age		
		STANDARD A.G.D.		
		BLANK SIZE		
SIZE-RANGE	CLASS	LENGTH/O.D.	STEEL	CHROME
5.5101 in.	XX		\$506.00	\$657.00
		#13 Blank		4
to 6.260 in.	X	1-1/2" 9-1/4"	428.00	553.00
139.951mm	Y	38.1mm 235.0mm	391.00	506.00
to 159.00mm	Z		388.00	498.00
6.2601 in.	XX	#14 Blank	616.00	798.00
to 7.010 in.	Х	1-1/2" 10-1/4"	572.00	743.00
159.001mm	Y	38.1mm 260.4mm	544.00	708.00
178.05mm	Z		539.00	705.00
7.0101 in.	XX	#15 Block	641.00	829.00
to 7.760 in.	Х	1-1/2" 11-1/4"	581.00	759.00
178.051mm	Υ	38.1mm 285.8mm	561.00	729.00
to 179.10mm	Z	00.1111111 200.0111111	558.00	723.00
7.7601 in.	XX	#16 Blank	730.00	938.00
to 8.510 in.	Х	1-1/2" 12-1/4"	668.00	851.00
197.101mm	Υ	38.1mm 311.2mm	638.00	815.00
to 216.15mm	Z	30.111111 311.2111111	621.00	808.00
8.5101 in.	XX	#17 Blank	821.00	1051.00
to 9.260 in.	Χ	1-1/2" 13-1/4"	748.00	970.00
216.151mm	Υ	38.1mm 336.6mm	718.00	920.00
to 235.20mm	Z	30.1111111 330.0111111	698.00	914.00
9.2601 in.	XX	#10 Dlopk	920.00	1210.00
to 10.010 in.	Χ	#18 Blank	817.00	1060.00
235.201mm	Υ	1-1/2" 14-1/4"	782.00	997.00
to 254.25mm	Z	38.1mm 362.0mm	760.00	970.00
10.0101 in.	XX	U10 Dissila	1085.00	1385.00
to 10.760 in.	Χ	#19 Blank	920.00	1205.00
254.251mm	Υ	1-1/2" 15-1/4"	801.00	1045.00
273.30mm	Z	38.1mm 387.4mm	798.00	1028.00
10.7601 in.	XX	#00 PL - I	1178.00	1520.00
to 11.510 in.	Х	#20 Blank	1011.00	1320.00
273.301mm	Υ	1-1/2" 16-1/4"	937.00	1220.00
to 292.35mm	Z	38.1mm 387.4mm	928.00	1210.00
11.5101 in.	XX	#04 BL 1	1375.00	1780.00
to 12,260 in.	Х	#21 Blank	1245.00	1590.00
292.351mm	Υ	1-1/2" 17 -1/4"	1175.00	1488.00
to 311.40mm	Z	38.1mm 438.2mm	1157.00	1458.00
12.2601 in.	XX		1669.00	
to 13.010 in.	X	#22 Blank	1593.00	
311.401mm	Υ	1-1/2" 18-1/4"	1520.00	
to 330.45mm	Z	38.1mm 463.6mm	1486.00	S
13.0101 in.	XX		1698.00	Ш
to 13.760 in.	X	#23 Blank	1640.00	()
330.451mm	Y	1-1/2" 19-1/4"	1596.00	\simeq
to 349.50mm	Z	38.1mm 489.0mm	1570.00	\square
13.7601 in.	XX		1753.00	Д
to 14.510 in.	X	#24 Blank	1672.00	~
349.501mm	Y	1-1/2" 20-1/4"	1,590.00	<u> </u>
to368.55mm	Z	38.1mm 514.4mm	1565.00	O
14.5101 in.	XX		1805.00	Ш
to 15.260 in.	X	#25 Blank	1780.00	1
368.551mm	Y	1-1/2" 21-1/4"	1710.00	
1	Z	38.1mm 539.8mm	1700.00	7
to 387.60mm				CALL FOR PRICES
15.2601 in. to 16.010 in.	XX	#26 Blank	1945.00 1895.00	
387.601mm	Y	1-1/2" 22-1/4"	1845.00	
to 406.65mm	Z	38.1mm 565.2mm	1790.00	
ເບ 4 ບບ.ບວ!!!!!!			1790.00	





Cylindrical Ring gages above 1.510" are manufactured with a flanged diameter as pictured above. This design removes excess material to reduce the weight of the gage and makes it easier to use.

31 SIZES / SAME DAY SHIPPING - ADD 30%. SAME DAY* SHIPPING ON FRACTIONAL SIZE RINGS FROM .125" – 2.000" IN .0625" INCREMENTS. AVAILABLE IN MASTER CL-X or CL-XX.

*Order must be in by 10:00 a.m. EST

.1250 = 1/8	1.1250 = 11/8
.1875 = 3/16	1.1875 = 1 3/16
.2500 = 1/4	1.2500 = 1 1/4
.3125 = 5/16	1.3125 = 1 5/16
.3750 = 3/8	1.3750 = 13/8
.4375 = 7/16	1.4375 = 1 7/16
.5000 = 1/2	1.5000 = 1 1/2
.5625 = 9/16	1.5625 = 19/16
.6250 = 5/8	1.6250 = 15/8
.6875 = 11/16	1.6875 = 1 11/16
.7500 = 3/4	1.7500 = 13/4
.8125 = 13/16	1.8125 = 1 13/16
.8750 = 7/8	1.8750 = 17/8
.9375 = 15/16	1.9375 = 1 15/16
1.000 = 1.0	2.0000 = 2.0
1.0625 = 1 1/16	

PLAIN RING HOLDERS (Black Only)

#000	\$50.00
#0	\$50.00
#1	\$50.00
#2	\$50.00
#3	\$65.00
#4	\$65.00

LONG FORM CALIBRATION		
SIZE	PRICE	
.015" – .03999"	priced on request	
.040" - 5.510"	\$15.00	
5.5101" – 11.000"	\$20.00	
11.001 – 15.000"	\$30.00	
15.001 – 22.000"	\$75.00	
Above 22.00"	priced on request	

XXX - Add 100% to above prices





Pictured above are carbide inserted ring gages. The insert is solid carbide fitted into an outside sleeve of steel. A solid carbide ring gage would be excessively heavy and subject to cracking as carbide is hard and brittle. Use plain ring gages for masters and GO/NOGO gaging.

Use plain ring gages to efficiently inspect external dimensions of manufactured parts.

With GO/NOGO ring gages, an inspector can quickly pass/fail parts without taking time consuming readings from a measuring instrument.

Plain ring gages are also ideal for use as masters for setting bore gages, air gages, and internal micrometers. By using the same size master ring gage, lead error on measurements can be eliminated.

DIRECTION OF TOLERANCES

MASTER - Bilateral (Split) Tolerance GO - Unilateral (Minus) Tolerance NOGO - Unilateral (Plus) Tolerance

- Ring gages manufactured in accordance with ANSI Specification B89.1.6-1981.
- . Gage blanks meet all requirements of B47.1-1981
- . All ring gages regardless of size are lapped and polished.
- Non-gaging areas are black oxided and ring faces are surface ground.
- Roundness and taper of all gages will not exceed 50% of the applicable gagemaker's size tolerance and are non-accumulative.
- XXX rings add 100% to XX prices for sizes up to 1.5101 inches.
- · Larger sizes priced on request.
- · Call for quantity discounts.

LONG FORM CALIBRATION		
SIZE	PRICE	
.015" – .03999"	priced on request	
.040" - 5.510"	\$15.00	
5.5101" - 11.000"	\$20.00	
11.001 – 15.000"	\$30.00	
15.001 – 22.000"	\$75.00	
Above 22.00"	priced on request	



CYLINDRICAL CARBIDE RING GAGES

Thread Check Inc. Cylindrical Ring Gages are manufactured to ASME/ANSI B47.1 AGD standard and ASME/ANSI B89.1.6 C-2 grade carbide

Blank OD/				
Size	Class	Tolerance	Length	PRICE \$
	XX	.000020		\$225.00
.015in to .0399in	Х	.000040	#000 Blank	\$193.00
.381mm to 1.020mm	Υ	.000070	15/16 3/16	\$181.00
	Z	.0001		\$179.00
	XX	.000020		\$225.00
.040in to .070in	Χ	.000040	#00 Blank	\$193.00
1.021mm to 1.78mm	Υ	.000070	15/16 3/16	\$181.00
	Z	.0001		\$179.00
	XX	.000020		\$200.00
.0701in to .150in	Х	.000040	#00 Blank	\$194.00
1.781mm to 3.81mm	Υ	.000070	15/16 3/16	\$178.00
	Z	.0001		\$172.00
	XX	.000020		\$175.00
.1501in to .230in	Χ	.000040	#0 Blank	\$165.00
3.811mm to 5.84mm	Υ	.000070	15/16 3/8	\$158.00
	Z	.0001		\$156.00
	XX	.000020		\$155.00
.2301in to .365in	Χ	.000040	#1 Blank	\$147.00
5.841mm to 9.27mm	Υ	.000070	1-1/8 9/16	\$138.00
	Z	.0001		\$135.00
	XX	.000020		\$167.00
.3651in to .510in	Х	.000040	#2 Blank	\$154.00
9.271mm to 12.95mm	Υ	.000070	1-3/8 3/4	\$142.00
	Z	.0001	1	\$139.00
	XX	.000020		\$190.00
.5101in to .825in	Х	.000040	#3 Blank	\$170.00
12.951mm to 20.96mm	Υ	.000070	1-3/4 15/16	\$163.00
	Z	.0001	1	\$159.00
	XX	.000030		\$268.00
.8251in to 1.135in	Х	.000060	#4 Blank	\$248.00
20.961mm to 28.83mm	Υ	.000090	2-1/8 1-1/8	\$241.00
	Z	.00012		\$238.00
	XX	.000030		\$328.00
1.1351in to 1.335in	Х	.000060	#5 Blank	\$295.00
28.831mm to 33.91mm	Υ	.000090	2-1/2 1-5/16	\$280.00
	Z	.00012		\$279.00
	XX	.000030		\$345.00
1.3351in to 1.510in	Х	.000060	#5 Blank	\$298.00
33.911mm to 38.35mm	Υ	.000090	2-1/2 1-5/16	\$278.00
	Z	.00012		\$272.00
	XX	.000040		\$439.00
1.5101in to 1.760in	Х	.000080	#6 Blank	\$380.00
38.351mm to 44.70mm	Υ	.00012	4 1-1/2	\$347.00
	Z	.00016		\$340.00
	XX	.000040		\$475.00
1.7601in to 2.010in	Х	.000080	#6 Blank	\$440.00
44.701mm to 51.05mm	Y	.00012	4 1-1/2	\$417.00
0	Z	.00012	1	\$410.00
	XX	.000040		\$578.00
2.0101in to 2.260in	X	.000080	#7 Blank	\$530.00
51.051mm to 57.40mm	Y	.00012	4-1/2 1-1/2	\$498.00
2	Z	.00012	1, 2, 2	\$493.00
	XX	.00010		\$650.00
2.2601in to 2.250in	X	.000040	#7 Blank	\$585.00
57.401mm to 63.75mm	Υ	.00012	4-1/2 1-1/2	\$5554.00
07.10111111111000.70111111			7 1/2 1-1/2	
	Z	.00016	<u> </u>	\$549.00



MASTER SETTING DISCS

Use MASTER SETTING DISCS to calibrate and set comparators, snap gages, and other precision measuring instruments. They are furnished with insulating grips to prevent heat distortion. Master Setting Discs are designed to satisfy quality control traceability requirements and are available in 3 styles, unless otherwise specified.

All MASTER SETTING DISCS • Conform to ANSI B47.1

- . Are ring lapped to size and polished.
- Are furnished with insulator grips to prevent heat distortion.
- Roundness and taper of all gages will not exceed 50% of the application gagemaker's size tolerance and are non-accumulative.

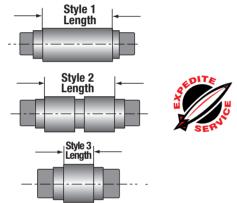
3 STYLES:

Styles 1 and 3 -

Bilateral tolerance +/- 1/2 tolerance.

Style 2-

Uniterlateral tolerance GO – minus tolerance NOGO + Plus tolerance



- XXX and Carbide Master Setting Discs are priced on request.
- . Larger sizes priced on request.
- Call for quantity discounts.
- Sizes available up to 23 inches in style #3.
- . Discs above 8.010 are in trilock design, not annular.

Note: sizes above 1.510" to and including 8.510 –AGD standards call for style #3 in place of style #2. Style #3 master setting are separated by an A.G.D. separator plate and linked together with a tie rod and insulators.

LONG FORM CALIBRATION		
SIZE	PRICE	
.015" – .03999"	priced on request	
.040" – 5.510"	\$15.00	
5.5101" – 11.000"	\$20.00	
11.001 – 15.000"	\$30.00	
15.001 – 22.000"	\$75.00	
Above 22.00"	priced on request	

XXX - Add 50% to above prices

					STEEL		(CHROMI	E
RANGE	CLASS	STYLE	LENGTH	PRICE STYLE 1	PRICE STYLE 2	PRICE STYLE 3	PRICE Style 1	PRICE STYLE 2	PRICE STYLE 3
450" 000"	XX	1	3/4	\$76.00	\$135.00	\$74.00	\$99.00	\$175.00	\$96.00
.150"230" 3.811mm-5.84mm	Χ	2	3/4	78.00	121.00	67.00	102.00	158.00	86.00
3.61111111-3.6411111	Υ	3	3/8	62.00	116.00	75.00	81.00	151.00	83.00
.2301"365"	XX	1	7/8	77.00	142.00	84.00	100.00	184.00	109.00
5.841mm-9.27mm	Х	2	7/8	67.00	130.00	78.00	87.00	169.00	101.00
0.0 1111111 0	Υ	3	7/16	74.00	126.00	66.00	96.00	164.00	84.00
.3651"510"	XX	1	1	110.00	142.00	77.00	103.00	185.00	100.00
9.271mm-12.95mm	X	2	1 1/0	79.00	132.00	68.00	103.00	172.00	87.00
	Y	3	1/2	74.00	126.00 147.00	65.00	96.00	164.00	83.00
5101"825"	XX	2	1/8 1/8	89.00 79.00	136.00	80.00 70.00	117.00 103.00	191.00 176.00	104.00 91.00
12.951mm-20.96mm	Y	3	9/16	76.00	126.00	66.00	99.00	164.00	86.00
	XX	1	1-1/4	91.00	157.00	83.00	118.00	204.00	109.00
.8251"-1.135"	X	2	1-1/4	83.00	135.00	72.00	106.00	187.00	93.00
20.961mm-28.83mm	Y	3	5/8	79.00	131.00	68.00	102.00	169.00	87.00
	XX	1	1-3/8	101.00	173.00	92.00	132.00	226.00	119.00
1.1351"—1.510"	Χ	2	1-3/8	84.00	137.00	73.00	109.00	178.00	95.00
28.831mm-38.35mm	Υ	3	1-1/16	80.00	132.00	69.00	105.00	171.00	90.00
1.5101" 0.010"	XX	1	1-7/8	122.00	198.00	105.00	156.00	258.00	136.00
1.5101"-2.010" 38.351mm-51.05mm	Χ	2	2	99.00	179.00	94.00	128.00	232.00	122.00
30.33111111-31.0311111	Υ	3	7/8	93.00	168.00	90.00	120.00	219.00	117.00
2.0101"-2.510"	XX	1	2	134.00	226.00	122.00	173.00	293.00	159.00
51.051mm-63.75mm	Χ	2	2	111.00	182.00	95.00	143.00	237.00	123.00
	Υ	3	7/8	105.00	174.00	91.00	137.00	226.00	117.00
2.5101"-3.010"	XX	1	2	152.00	262.00	140.00	196.00	339.00	182.00
63.751mm-76.45mm	X	2	2-1/4	122.00	221.00	115.00	157.00	287.00	149.00
	Y	3	1 2	113.00	205.00	111.00	146.00	266.00	144.00
3.0101"-3.510"	XX	2	2-1/4	226.00 210.00	357.00 334.00	191.00 173.00	293.00 274.00	465.00 433.00	246.00 224.00
76.451mm-89.15mm	Y	3	1	200.00	313.00	168.00	260.00	407.00	219.00
	XX	1	2-1/8	252.00	373.00	195.00	328.00	484.00	252.00
3.5101"-4.010"	X	2	2-1/4	221.00	331.00	177.00	287.00	430.00	229.00
89.151mm-101.85mm	Υ	3	1	208.00	313.00	168.00	270.00	407.00	219.00
4.0101"-4.510"	XX	1	2-1/8	248.00	380.00	198.00	322.00	492.00	255.00
101.851mm-	Χ	2	2-1/4	227.00	347.00	178.00	295.00	452.00	230.00
114.55mm	Υ	3	1	219.00	322.00	168.00	285.00	417.00	219.00
4.5101"-5.010"	XX	1	2-1/8	315.00	387.00	205.00	408.00	502.00	267.00
114.551mm-127.25mm	X	2	2-1/4	290.00	364.00	191.00	378.00	473.00	248.00
	Υ	3	1	274.00		179.00	355.00		234.00
5.0101"-5.510"	XX	1	2-1/8	326.00	417.00	222.00	425.00	540.00	288.00
127.251mm-139.95mm	X	2	2-1/4	297.00	367.00	193.00	387.00	477.00	250.00
	XX	3	2 1/9	284.00 337.00	347.00	171.00 231.00	369.00	451.00	222.00
5.5101"-6.010"	X	2	2-1/8 2-1/4	305.00	451.00 373.00	198.00	438.00 397.00	586.00 485.00	302.00 258.00
139.951mm-152.65mm	Y	3	1	293.00	358.00	190.00	381.00	465.00	247.00
	XX	1	2-1/8	354.00	488.00	256.00	460.00	634.00	332.00
6.0101"-6.510"	X	2	2-1/4	322.00	448.00	207.00	419.00	581.00	267.00
152.651mm-165.35mm	Y	3	1	307.00	420.00	197.00	397.00	544.00	255.00
0.5404, 2.040,	XX	1	2-1/8	546.00	609.00	315.00	709.00	792.00	407.00
6.5101" – 7.010"	Х	2	2-1/4	494.00	552.00	293.00	641.00	715.00	400.00
165.351mm-178.05mm	Υ	3	1	470.00	530.00	276.00	610.00	689.00	360.00
7.0101" - 7.510"	XX	1	2-1/8	565.00	625.00	326.00	731.00	809.00	420.00
178.051mm-190.75mm	Х	2	2-1/4	505.00	568.00	295.00	651.00	734.00	378.00
	Υ	3	1	483.00	542.00	287.00	625.00	698.00	371.00
7.5101"-8.010"	XX	1	2-1/8	589.00	636.00	337.00	762.00	825.00	436.00
190.751mm-203.45mm	X	2	2-1/4	532.00	577.00	307.00	689.00	747.00	395.00
	Υ	3	1	507.00	542.00	291.00	653.00	698.00	374.00

Qty discounts are available for identical sizes Qty 2 - less 10% Qty 3 - less 15%



AGD LIMIT SNAP GAGES





Gaging surfaces are hardened, ground & lapped tool steel. Marking discs are supplied on all snap gages.

MODEL "C" STYLE 108						
FRAME #	RANGE	PRICE				
1	0 to 1/4	\$125.00				
2	1/4 to 1/2	127.00				
2X	1/2 to 3/4	127.00				
3	3/4 to 1	130.00				
3X	1 to 1-1/4	130.00				
4	1-1/4 to 1-1/2	133.00				
4X	1-1/2 to 1-3/4	133.00				
5	1-3/4 to 2	137.00				
5X	2 to 2-1/4	137.00				
6	2-1/4 to 2-1/2	145.00				
6X	2-1/2 to 2-3/4	145.00				
7	2-3/4 to 3-1/16	158.00				
7X	3-1/16 to 3-7/16	158.00				
8	3-7/16 to 3-13/16	169.00				
8X	3-13/16 to 4-3/16	169.00				
9	4-3/16 to 4-9/16	195.00				
9X	4-9/16 to 4-15/16	195.00				
10	4-15/16 to 5-5/16	229.00				
10X	5-5/16 to 5-11/16	229.00				
11	5-11/16 to 6-1/8	295.00				
11X	6-1/8 to 6-5/8	295.00				
12	6-5/8 to 7-1/8	335.00				
12X	7-1/8 to 7-5/8	335.00				
13	7-5/8 to 8-1/8	370.00				
13X	8-1/8 to 8-5/8	370.00				

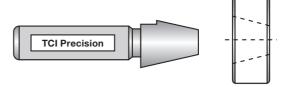
MODEL "MC" STYLE 102						
FRAME #	RANGE	PRICE				
00	.000 to .195	\$139.00				
00	.195 to .385	139.00				
0	.385 to .570	139.00				
0	.570 to .760	139.00				

MODEL "A" STYLE 104						
FRAME #	FRAME # RANGE					
1	0 to 1/2	\$110.00				
2	1/2 to 1	115.00				
3	1 to 1- 1/2	120.00				
4	1-1/2 to 2	125.00				
5	2 to 2-1/2	135.00				
6	2-1/2 to 3	140.00				
7	3 to 3-3/4	145.00				
8	3-3/4 to 4-1/2	160.00				
9	4-1/2 to 5-1/4	185.00				
10	5-1/4 to 6	200.00				

Set & Sealed \$ 15.00 Unset but Marked \$ 5.00

Long Form Calibration available at an additional charge

CYLINDRICAL TAPER GAGES



NATIONAL MACHINE TAPERS

Taper #	Large End	Small End	Length	Price Each	
				Plug	Ring
5	.500	.2995	.6875	\$386.00	\$621.00
10	.625	.3698	.8750	301.00	559.00
15	.750	.4401	1.0625	320.00	534.00
20	.875	.4922	1.3125	328.00	508.00
25	1.000	.5443	1.5625	387.00	601.00
30	1.250	.7031	1.8750	447.00	688.00

Taper #	Large End	Small End	Length	Price	Each
				Plug	Ring
35	1.500	.8438	2.2500	\$508.00	\$742.00
40	1.750	1.0026	2.5625	559.00	785.00
45	2.250	1.2839	3.3125	610.00	842.00
50	2.750	1.5833	4.0000	668.00	895.00
55	3.500	1.9870	5.1875	698.00	955.00
60	4.250	2.3906	6.3750	724.00	1,016.00

JARNO TAPERS - W/O TANG .6000" TPF

Taper #	Large End	Small End	Length	Price	Each
				Plug	Ring
1	.125	.100	.500	\$387.00	\$655.00
2	.250	.200	1.00	371.00	621.00
3	.375	.300	1.50	344.00	585.00
4	.500	.400	2.00	292.00	540.00
5	.625	.500	2.50	308.00	551.00
6	.750	.600	3.00	320.00	530.00
7	.875	.700	3.50	352.00	560.00
8	1.000	.800	4.00	403.00	593.00
9	1.125	.900	4.50	413.00	621.00
10	1.250	1.000	5.00	422.00	645.00

Taper #	Large End	Small End	Length	Price	Each
				Plug	Ring
11	1.375	1.100	5.50	\$447.00	\$689.00
12	1.500	1.200	6.00	483.00	742.00
13	1.625	1.300	6.50	534.00	766.00
14	1.750	1.400	7.00	642.00	903.00
15	1.875	1.500	7.50	674.00	1,000.00
16	2.000	1.600	8.00	750.00	1,031.00
17	2.125	1.700	8.50	763.00	1,069.00
18	2.250	1.800	9.00	784.00	1,097.00
19	2.375	1.900	9.50	791.00	1,130.00
20	2.500	2.000	10.00	822.00	1,156.00

BROWN & SHARPE TAPERS

Taper #	Large End	Small End	Length	TPF	Plug Price		Ring Price	
					W/O TANG	W/TANG	W/O TANG	W/TANG
1	.23922	.20000	15/16	.50200	\$387.00	\$481.00	\$645.00	\$852.00
2	.29968	.25000	1 3/16	.50200	370.00	438.00	621.00	801.00
3	.37525	.31250	1 1/2	.50200	344.00	413.00	585.00	777.00
4	.42060	.35000	1 11/16	.50240	288.00	352.00	534.00	704.00
5	.53880	.45000	2 1/8	.50160	292.00	370.00	541.00	724.00
6	.59960	.50000	2 3/8	.50329	308.00	379.00	551.00	741.00
7	.72010	.60000	2 7/8	.50147	320.00	395.00	489.00	656.00
8	.89870	.75000	3 9/16	.50100	352.00	438.00	443.00	621.00
9	1.07750	.90010	4 1/4	.50085	403.00	500.00	594.00	785.00
10	1.25970	1.04465	5.00	.51612	422.00	508.00	602.00	790.00
11	1.49780	1.24995	5 15/16	.50100	551.00	673.00	775.00	1,008.00
12	1.79680	1.50010	7 1/8	.49973	559.00	681.00	785.00	1,016.00
13	2.07310	1.75005	7 3/4	.50020	655.00	777.00	896.00	1,146.00
14	2.34380	2.00000	8 1/4	.50000	663.00	785.00	904.00	1,163.00
15	2.61460	2.25000	8 3/4	.50000	689.00	809.00	930.00	1,189.00
16	2.88540	2.50000	9 1/4	.50000	856.00	869.00	1,016.00	1,232.00
17	3.15630	2.75000	9 3/4	.50000	835.00	998.00	1,171.00	1,419.00
18	3.42710	3.00000	10 1/4	.50000	964.00	1,153.00	1,352.00	1,646.00

All Standard Tapers manufactured to ASME/ANSI B5.10 class Z unless otherwise specified

Thread Check Inc. can manufacture special tapers per customer design

Medical Luer Tapers

Steep Machine Tapers

Cat V Flange Tapers

Long Form Calibration \$50 per gage

MORSE TAPERS

Taper #	Large End	Small End	Length	TPF	Plug l	Price	Ring	Price
					W/O TANG	W/TANG	W/O TANG	W/TANG
0	.3561	.2520	2.00	.62460	\$361.00	\$438.00	\$712.00	\$827.00
1	.4750	.3690	2 1/8	.59858	295.00	370.00	607.00	789.00
2	.7000	.5720	2 9/16	.59941	320.00	395.00	557.00	736.00
3	.9380	.7780	3 3/16	.60235	352.00	438.00	515.00	687.00
4	1.2310	1.0200	4 1/16	.62326	403.00	501.00	595.00	785.00
4 1/2	1.500	1.2660	4 1/2	.62400	475.00	577.00	681.00	885.00
5	1.7480	1.4750	5 3/16	.63151	534.00	655.00	768.00	998.00
6	2.4940	2.1160	7 1/4	.62565	681.00	801.00	930.00	1,171.00
7	3.2700	2.7500	10	.62400	724.00	869.00	1,016.00	1,232.00



SURVEILLANCE MASTERS

MICROMETER SET MASTERS

Model #	Price
01-1E (English)	\$280.00
01-1M (Metric)	\$280.00
Certification	\$70.00
16-1E (English)	\$470.00
16-1M (Metric)	\$470.00
Certification	\$70.00
16-1/2E (English)	\$700.00
16-1/2M (Metric)	\$700.00
Certification	\$140.00
112E (English)	\$1,450.00
112M (Metric)	\$1,450.00
Certification	\$180.00

Micrometer masters are used to calibrate and set micrometers. The master is superior to gage block calibration because they do not require block stacks so it is much faster to inspect the linear range of the tool. Micrometer set masters indicate the wear on the micrometer anvil because they replicate how the micrometer is used.



VERNIER CALIPER MASTERS

Model #	Price
VC-1E(English)	\$320.00
VC-1M(Metric)	\$320.00
Cetification	\$70.00
Storage Case	\$20.00

Thread Check Inc. vernier masters are used to calibrate vernier calipers. The master is superior to gage block calibration because they do not require block stacks so it is much faster to inspect the linear range of the tool. In addition they indicate wear on the caliper anvils because both the I.D. and O.D. jaws are inspected without additional setup.



DEPTH MICROMETER MASTERS

Model #	Price
DM-1E(English)	\$682.00
DM-1M(Metric)	\$682.00
Certification	\$70.00
ADM-E(English)	\$2,080.00
ADM-M(Metric)	\$2,080.00
Certification	\$185.00

Thread Check Inc. depth micrometer masters are used to calibrate vernier calipers. The master is superior to gage block calibration because they do not require block stacks so it is much faster to inspect the linear range of the tool.



QUIKCHEK

Model #	Price
8 inch	\$4,000.00
Re-Calibration	\$255.00
16 inch	\$9,000.00
Re-Calibration	\$355.00

Thread Check Inc. QUICKCHECK is used to calibrate Coordinate Measuring Machines (CMM). The QUICKCHECK provides an easy way to ensure the CMM is providing accurate readings.



GEOMETRIC CHEK

Model #	Price
GC-1	\$1,400.00
Re-Calibration	\$155.00

Thread Check Inc. GEOMETRIC Check Master is used to calibrate and check geometry systems. The master checks for perpendicularity, roundness, parallelism, and concentricity.





Model #	Price
LX-1	\$635.00
GX-1	\$572.00
Re-Calibration	\$50.00

Thread Check Inc. Z Axis Check Master is used to calibrate and set the Z axis on optical measuring machines. The master is superior to gage block calibration because they do not require block stacks so it is much faster to inspect the linear range of the tool.



FLEXBAR TRIGA-BORE™/TRUE-BORE

3 POINT BORE GAGING SYSTEM

For the accurate and precise measurement of internal diameters. MEASURING RANGE: .236"/6mm to 7.87"/200mm Premium quality made in England.

True-Bore is the result of over 25 years of design and manufacture of 3-point bore gaging systems. Ideal for solving internal diameter measurement problems on the shop floor and inspection areas, the system is available in a large measuring range for specific applications. Mechanical and electronic dial gages as well as linear probes can be used as specified.



Ergonomically designed pistol style handle allows precision self-centered measurements to be performed.

True-Bore lever style handles in use with True-Bore heads and a variety of indicator options.

FEATURES:

- True-Bore heads have a large measuring range and are supplied with fixed anvils eliminating operator error. 24 heads cover .236"-7.87"
 (6-200mm range).
- Unique system design allows two measuring handles or pistol grip Triga-Bore to cover .236"-7.87" (6-200mm range).
- Extensions available for increased gaging depths.
- · Accuracy: See chart on page 39.
- Repeatability: .0001"/0.0002mm
- High degree of accuracy can be achieved without need for special skills.
- Customer can specify type of output.
- Can be used for special applications such as threads 'o' ring grooves, spherical forms, etc.
- Ergonomically designed handle offers single handed operation.
- Accurate calibration and linearity checks can also be made using Flexbar's True-Cal System (Available on request).
- Triga-Bore system sets covering a range from .236"/6mm to 3.9327"/100mm are priced on request.

SPECIAL APPLICATION MEASURING HEADS GROOVE MEASUREMENT:

Precise groove measurements are made easily and accurately. Application requirements are; groove width minimum is .060"/1.5mm. Groove depth may not exceed half the travel range of the True-Bore head. This dimension is .079"/2mm to .394"/10mm.

THREAD MEASUREMENT:

Inside pitch diameter thread measurement becomes highly productive. Application requirements are minimum diameter of .625"/16mm. Any thread form including specials can be supplied (UN, ACME, METRIC). Different pitch diameters having the same pitch can be measured with one head.

BALL SCREW MEASUREMENT:

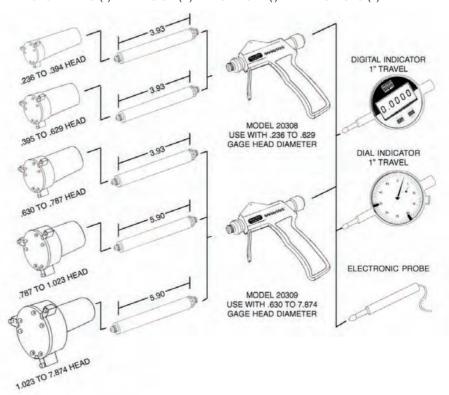
Inside ball screw diameter measurements are quickly completed. Application requirements are minimum diameter of .625"/16mm. Different pitch diameters with the same pitch can be measured with one head.

SPHERICAL OR IRREGULAR SHAPE MEASUREMENT:

Spherical shaped heads are useful in deep bores where holding the bore gage straight in the bore is difficult. The spherical shape allows only a single contact point per anvil on the bore wall. All special shaped head applications can be reviewed on request.

All of the above applications and any others are quoted on request.

GAGE HEADS (II) EXTENSION (III) TRIGA-BORE (I) INDICATORS (V)





FLEXBAR TRIGA-BORE™ SYSTEM

Pistol grip handle for Flexbar 3 Point Bore Gage Systems

Specifications for ordering Handles, Gage Heads and Setting Rings

1. TRIGA-BORE™ PISTOL GRIP AND LEVER STYLE BORE GAGE HANDLES*

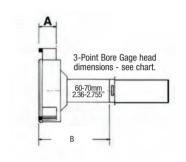
Pistol grip style handle accepts heads: .236"/6mm -.630"/16mm ... Model 20308, Priced on request Pistol grip style handle accepts heads: .630"/16mm -7.874"/200mm Model 20309, Priced on request Lever style handle accepts heads: .236"/6mm - .630"/16mm ... Model 20310, Priced on request Lever style handle accepts heads: .630"/16mm - 7.874"/200mm ... Model 20311, Priced on request *All gage handles accept 3/8" indicator stem probes. An 8mm stem bushing is included.

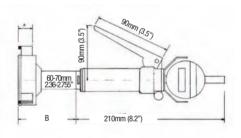
Triga-Bore handle shown with True-Bore Head, Digital Indicator, and Master Setting Ring.

2. 3-POINT BORE HEADS AND MASTER SETTING RING

(AGD Style Master Rings with calibration)

	,	Tungo man		/				
	HEAD	SIZE	CONTACT LINE A		H HEAD Accuracy		SETTING CLASS Z	RING Steel
MODEL	MM	IN	IN	IN	IN	PRICE	SIZE	PRICE
20312	6-8	.236315	.109	2.36	.0001		.2912	
20313	8-10	.315394	.118	2.36	.0001		.3437	
20314	10-13	.394511	.157	2.36	.00015	100	.4375	1
20315	13-16	.511630	.157	2.36	.00015		.5625	
20316	16-20	.630787	.280	2.36	.00015	S	.7187	S
20317	20-26	.787-1.023	.390	2.36	.00015		.9062	ш
20318	26-32	1.023-1.260	.390	2.36	.00015		1.0312	UE
20319	32-40	1.260-1.575	.433	2.75	.00015	O	1.4062	O
20320	40-50	1.575-1.968	.591	2.75	.00015	\mathbf{H}	1.7500	Ш
20321	50-60	1.968-2.362	.591	2.75	.00015	₩	2.1875	—
20322	60-70	2.362-2.756	.591	2.75	.00015	\Box	2.5625	\square
20323	70-80	2.756-3.150	.591	2.75	.00015	_	2.9375	7
20324	80-90	3.150-3.543	.591	2.75	.00015	Z	3.3437	O
20325	90-100	3.543-3.937	.591	2.75	.00015	\circ	3.7500	\mathbf{O}
20326	100-110	3.937-4.330	.767	2.75	.00015		4.1250	
20327	110-120	4.330-4.724	.767	2.75	.00015		4.5625	
20328	120-130	4.724-5.118	.767	2.75	.00015	ш	4.9062	Ш
20329	130-140	5.118-5.512	.767	2.75	.00015		5.3125	\circ
20330	140-150	5.512-5.906	.767	2.75	.00015	\equiv	5.7187	
20331	150-160	5.906-6.299	.767	2.75	.00015	$\overline{\square}$	6.1093	PRI
20332	160-170	6.299-6.693	.866	2.75	.0002	\Box	6.5000	О.
20333	170-180	6.693-7.087	.866	2.75	.0002		6.9062	
20334	180-190	7.087-7.480	.866	2.75	.0002		7.2912	
20335	190-200	7.480-7.874	.866	2.75	.0002		7.6875	





Flexbar Lever Style Bore Gage Handles can be used with the entire range of True-Bore 3-Point Bore gage Heads. Ideal for use in vertical gaging applications and tight access situations.

3. EXTENSIONS (for longer depths).

Model No.	For use with Gage heads Nos.	Length mm inch		Price
20345	20312-20313	100	3.937	NO
20346	20314-20315	100	3.937	D C ES
20347	20316	100	3.937	빚쥕
20348	20317	150	5.905	<u> </u>
20349	20318-20335	150	5.905	Ф. п.

Extensions may be combined for longer gaging depths.

- 4. ELECTRONIC DIGITAL INDICATORS (with absolute/preset measuring mode). Available gages include:Flexbar-Preisser Digi-Met Plus....Model 18318, Priced on Request
- 5. GAGE STEM EXTENSIONS (For indicators with less than 1" travel)

 1/2" length for 1/2" Indicator Travel (4-48 thread)...........Model 17262, CALL FOR PRICES
- 6. Triga-Bore stand, supports Triga-Bore handle/head when not in use. ...Model 20336, CALL FOR PRICES

Stand, Model 20336



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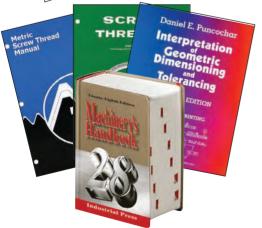
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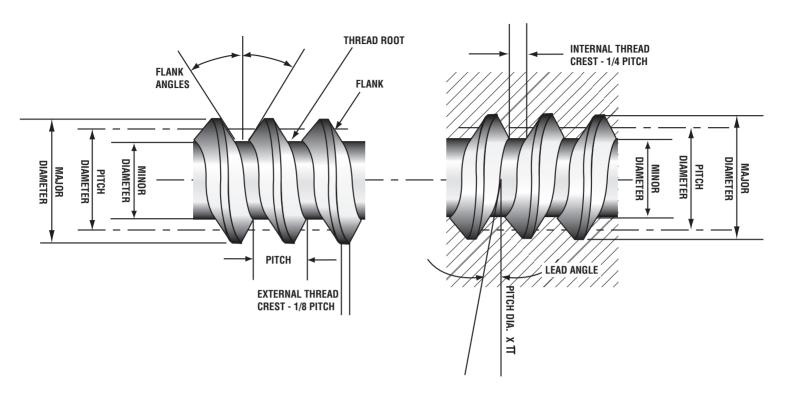
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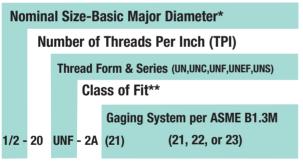


BASIC SCREW THREAD DESIGNATIONS

External and internal thread diagrams illustrate basic thread geometry.



1. Unified Inch Screw Threads: per ASME B1.1 Federal Std. H28/2 Military Std. MIL-S-7742D



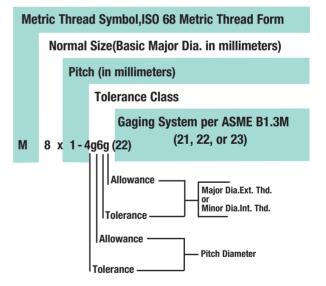
^{*}Decimal or machine screw number.

2. Inch "J" Series Screw Threads: per Military Std. MIL-S-8879C (25 July 1991)



^{*}Expressed as a 4-place inch decimal ONLY.

3. Metric Screw Threads: per ASME B1.13M Federal Std. H28/21



Standard Allowance Grades:

Internal Threads G and H shown as capital letter.

External Threads e, f, g and h shown as lower case letter.

Internal Tolerances Grades:

Internal Threads

Pitch and Minor Diameter 4, 5, 6, 7 and 8.

External Threads:

Pitch Diameter 3,4,5,6,7,8 and 9.

Major Diameter 4, 6 and 8.

^{**1}A,2A, or 3A external (1B, 2B or 3B internal) or (SPL for specials).

^{**}UNJ, UNJC, UNJF, UNEF, UNJS.

CALIBRATION PRICES — NEW GAGES

Prices are per member

Thread Work Plug Gages	New Gages ISO 17025 Price	New Gages Standard Calibration Price
#0 to 1 1/2" Taperlock	\$23.00	\$13.00
3/4" to 13" Trilock	\$28.00	\$13.00

Thread Ring Gages		
Standard Size 0 to 1/2"	\$28.00	\$13.00
Non - Standard Sizes #0 to 5 inch Diameter	\$35.00	\$13.00
Non - Standard Sizes over 5 inch Diameter	\$50.00	\$13.00
Thread Set Plug Gages		
#0 - 1 1/2" Taperlock	\$24.00	\$13.00
3/4" to 13" Trilock	\$30.00	\$13.00

Tapered Pipe Thread Gages - NPT, NPTF, ANPT, NGT				
1/16" to 3" Plug	\$40.00	\$30.00		
1/16" to 3" Ring	\$40.00	\$30.00		
3 1/2" to 6" Plug	\$40.00	\$30.00		
3 1/2" to 6" Ring	\$40.00	\$30.00		
Other Tapered Threads	Call			

Straight Pipe Thread Gages - NPSM and NPSF		
1/16" to 3" Plug	\$40.00	\$30.00
1/16" to 3" Ring	\$40.00	\$30.00
3 1/2" to 6" Plug	\$40.00	\$30.00
3 1/2" to 6" Ring	\$40.00	\$30.00
	Call	

Cylindrical Rings, Master Discs & Plug Gages		
.040" to 5.510"	\$22.00	\$15.00
5.510" to 11.000"	\$36.00	\$20.00
11.0001" to 15.000"	\$54.00	\$30.00
15.0001 and up	Call	

Cylindrical Taper Gages		
Standard Tapers, Tapers with Specs	\$45.00	

Snap Gages	\$15	

Surveillance Masters	New Gages ISO 17025 Price	New Gages Standard Calibration Price
01 - 1 English or Metric	\$95.00	\$65.00
16 - 1 English or Metric	\$95.00	\$65.00
16 - 1/2 English or Metric	\$190.00	\$130.00
112 English or Metric	\$235.00	\$175.00
VC - 1 English or Metric	\$95.00	\$65.00
DM - 1 English or Metric	\$95.00	\$65.00
ADM - English or Metric	\$210.00	\$150.00
QUIKCHEK		
8"		
16"		
GEOMETRIC CHEK	Included	
Z AXIS CHEK		

Thread and Gear Measuring Wires	\$18.00	\$15.00
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17025 accredited certs require approximately 1-2 weeks of additional lead-time.

Special thread ring gages require the purchase or supply of master setplugs to perform 17025 accredited calibration.

Visit www.threadcheck.com or call for information on our In - Service (customer property) 17025 Accredited calibration services.

All gages are supplied with a Certificate of Compliance traceable to N.I.S.T. free of charge.

No specific size or dimensional data is supplied with this type of cert. Prices subject to change without notice.



CALIBRATION PROCEDURES FOR THREAD RING GAGES

- Select the corresponding master set plug. Confirm all pitch diameters and class size match the ring gages.
 The set plug must be clean and calibrated to ensure it is not nicked, tapered, or out of tolerance. Lubricate the setting plug gage with a thin film of light viscosity oil.
- 2. Clean and inspect ring gages for nicks and embedded metal filings and burrs. Carefully remove the sealing wax with a knife.
- 3. Turn the ring gage locking screw counter-clockwise until it is loosened.
- 4. Turn the adjusting screw clock-wise which opens the ring to a larger pitch diameter than the setting plug.
- 5. Turn the ring gage onto the setting plug all the way to the back (Full form section) so that approximately one thread extends beyond the last thread of the setting plug. This will promote more uniform wear over the entire thread length of the plug.
- 6. Turn the adjusting screw counter-clockwise and rotate the ring on the setting plug until there is a slight drag between the two gages. The ring should have a noticeable amount of drag when rotated on the set plug. This procedure may have to be repeated more than once to obtain the proper amount of drag. Be patient! The degree of drag is subjective. Smaller ring gages and those set to set plugs near the low limit would require less drag than larger rings or rings set to setting plugs on the high limit.
- 7. To ensure that the ring has been properly seated, tap the ring with a small hammer and then recheck the amount of drag to ensure it has not changed. If the drag has changed, the ring gage has not been properly seated. Repeat step 6.
- 8. Turn the ring gage from the full form section to the truncated section at the front of the set plug. The drag should be essentially the same. The ring should not feel "shaky" or loose. A loose or "shaky" gage indicates lose of root relief or flank angles are worn out of tolerance and the gage should be removed for possible rework or replacement.
- 9. Remove the set plug from the ring. Now turn the ring onto the set plug 1 to 2 threads at the front. There should be some drag or resistance even at this short engagement. Remembering the feel at the 1 to 2 thread engagement, turn the ring further onto the truncated section. The drag should remain approximately the same although it may be slightly greater at full engagement due to more flank contact. Repeat step 9 on the other side of the ring gage. The drag should be essentially the same on both sides.
- 10. The minor diameter of the ring gage should be measured with either a bore gage, internal measuring machine, or fixed limit GO/NOGO plug gages. For plug gages, the GO member plug gage should GO and the NOGO member should not.
- 11. The locking and adjusting screws should be sealed with wax to prevent tampering.
- 12. The gage is now ready for service.

IMPORTANT NOTES

The setting of a thread ring gage is specific to the particular set plug the ring is set to. The ring gage will have a different feel on another set plug without readjustment.

It is recommended that a set plug be readily available in house to inspect gages being heavily used or for gages that have been dropped or impacted.

For high volume inspection it is good practice to have a new backup gage for comparison and reference inspection against the heavily used gage.

Go thread ring gages may want to be set slightly snugger than NOGO thread ring gages particularly when shipping components to customers for incoming inspection and assembly.

Keep gages lubricated and handle with care for longer gage life. Spinning ring gages onto parts or forcing rings past burrs will reduce gage life.

NPTF CLASS 2 SPECIFICATIONS

							OL.			. •											
	Basic Dimensions for L1 Plug Gages, NPTF Basic Dimensions for L3 Plug Gages														es						
Nominal	Rasic	Small E	nd	Basic Di Pla	im. at L1	Min.	Range	Basic Ra	nge M	lax. Ra	nge Ba:	sic	Small	End Fou	r	Min.	Range	Basic F	Range	Max. F	Range
	Length F			Pitch Dia.	Major	Min.		Min. N			Max. Leng	th P	itch Maj ia. Dia	or Threa	d Min	. Ma I Step				Max Step4	
						L1-p	L1-1/3p	L1-1/3p	L1+1/3p	L1+1/3	p L1+p					L1+L3-p	L1+L3-1/3p	L1+L3-1/3p	L1+L3+1/3p	L1+L3+1/3	p L1+L3p+p
1/16-27 1/8-27	i			2811B 37360	.30289	.12296		.14766		.17234	.19704	.2711	<u> </u>	.2815	.1482	.23406	i	.25876	.28344	.28344	.30814
1/4-18	_			49163	.52763	.17224		.20928		.24632	.28336	.3945		.4928	.2222	.33894		.37598	.41302	.41302	.45006
3/8-18				62701	.66301	.18444		.22148		.25852	.29556	.4067		.6275	.2222	.35114	1	.38818	.42522	.42522	.46226
3/4-14				77843 98887	.82815 1.03859	.24857	.29619	.29619		.34381	.39143	.5343		.7783 .9876	.2857	.46287	.51049	.51049	.55811	.55811	.60573
1-11/2				23863	1.29829	.31304		.37102		.42898	.48696	.6609		1.2379	.3478	.57394	1	.63192	.68988	.68988	.74786
1:/4-11:/2				58338	1.64304	.33304		.39102		.44898	.50696	.6809		1.5814	.3478	.59394	1	.65192	.70988	.70988	.76786
1,/2-11,/2 2-11:/2	.4200 1.			82234 29627	1.88200 2.35593	.33304		.39102		.44898 .46498	.50696	.6809		1.8203 2.2932		.59394		.65192 .66792	.70988 .72588	.70988 .72588	.76786 .78386
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1/16-27	000 .239		001 2154	002 .2711	+/0	001	002 .2464	+/001 .240	00	02 958	0000		.003	+/001 .2711	_	000 2166	+/001 .2464	00 .19	_	001 2958	000 .2413
1/8-27	.331	_	2169	.2726		922	.2479	.2416		973	.381	_	.003	.2726	_	2181	.2479	.19	_	2973	.2413
1/4-18 3/8-18	.427	_	3394 3516	.3945	_)24 46	.3575 .3697	.3764		315 437	.5064 .6410		.004	.3945	_	3394 3516	.3575	.30	_	4315 4437	.3764
1/2-14	.691		4794	.5343	_	318	.4867	.5270		819	.798	_	.004	.5343	_	4772	.4867	.42	_	5819	.5248
3/4-14	.901		4984	.5533	_	508	.5057	.5460		009	1.0070	_	.004	.5533	_	4962	.5057	.44		6009	.5438
1-11½ 1¼-11½		1.1324 .6052 1.4759 .6252		.6609	_	172 172	.6029 .6229	.6632	_	.7189 .7389		7	.005	.6609	_	5774 5974	.6029	.51	_	7189 7389	.6354
11/2-111/2	1.714		6252	.6809	_	572	.6229	.6832		389	1.844		.005	.6809	_	5974	.6229	.53		7389	.6554
2-111/2	2.187		6412 sic Dim	.6969	ns for L	332 1 Rinc	.6389 Ganes	.6992	2 .73	549	2.3170	5	.005	.6969 Dime		6134	ing Gag		34	7549	.6714
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Nominal Size	Basic Length	Pitch Dia.	Min Dia		Max. Step1	Min. Step 2	Max. Step 2	Min. Step 3	Max. Step 3			sic igth	Pitch Dia.	Mino Dia		Max. tep 1	Min. Step 2	Max. Step 2	Min. Step 3	Max. Step	
& T.P.I.	L1	Diu.	Die			_1- ¹ /3p)	(L1- ¹ /3p)	(L1+ ¹ /3p)	(L1+ ¹ /3p			.g L2	Dia.	J.				L2- ¹ /3p	L2+ ¹ /3p	L2+1/	
1/16-27 1/8-27	.1600 .1615	.28118	.259			14766 14916	.14766	.17234	.17234	.197		113	.28750	.270		22409	.24879	.24879	.27347	.2734	
1/4-18	.2278	.49163	.455			20928	.20928	.24632	.24632	_		178	.50250	.476		34622	.38326	.38326	.42030	.4203	
3/8-18	.2400	.62701	.591			22148	.22148	.25852	.25852	_		778	.63750	.611		35222	.38926	.38926	.42630	.4263	
1/2-14 3/4-14	.3200	.77843 .98887	.728			29619 31519	.29619	.34381	.34381	.39	143 .533 043 .549		.79179 1.00179	.758		16228 17428	.50990 .52190	.50990	.55752	.5575	
1-111/2	.4000	1.23853	1.178			37102	.37102	.42898	.42898	.486		278	1.25630	1.215		59582	.65379	.65379	.71176	.7117	
11/4-111/2	.4200	1.58338	1.523			39102	.39102	.44898	.44898	.506			1.60130	1.560		61982	.67780	.67780	.73576	.7357	
1½-11½ 2-11½	.4200	1.82234 2.29627	2.236			39102 40702	.39102	.44898	.44898	.506		348 652	1.84130 2.31630	1.800 2.275		63652 66956	.69450 .72754	.69450	.75246 .78550	.7524	
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] Nominal Size	L2 Basi Thread	C				Max.	Min.	Max.			end of pip Basic thre	e v	width of Crest at	Min.		Лах.	Min.	Max	к.	Min.	Max.
& T.P.I	with Ma Trunc.	ax. Trunc		nc.	Trunc.	Trunc. MNt	Trunc. MX	Trunc MXt		ıg	with Min Trunc. D		Minor Dia. F	Trunc B		runc. Bt	Trunc. MN	Trun MN	ıc. T	runc. MX	Trunc. MXt
	000	15	+.00)	+.	.000		+.000			+.0002					002		+.002	2		+.002
1/16-27	+.0000	_	_	_		.002 .2858	+/001 .1807	002 .2364	+/(1-1/4.2	_	0000 .003	+	.2611	+/001 .206	_	000 2858	+/001 .2313	000		001 1819	000
1/8-27	.405	1 .208	2 .26	39 .	.2329	.2886	.1835	.2392	1-1/	/4	.3549		.003	.263	9 .:	2094	.2886	.234	41 .:	2392	.1847
1/4-18 3/8-18	.5419	_	_	_		.4388 .4448	.3097	.3648	1-1/	_	.4631 .5981	+	.004	.401	_	3467 3527	.4388	.383	_	3648 3708	.3097
1/2-14	.845	1 .478	8 .53	37 .	.5264	.5813	.4312	.4861	2		.7385		.004	.533	7 .4	4766	.5813	.524	42 .	4861	.4290
3/4-14 1-11 ¹ / ₂	1.055 1.321	_	_	_		.5933 .7408	.4432	.4981 .6248	2-1/	_	.9485 1.1914		.004	.545 .682	_	4886 5993	.5933 .7408	.536		4981 6248	.4410 .5413
11/4-111/2	1.6662	_	_	_		7815	.5932	.6488	3-1/	_	1.5364	1	.005	.706 .723	_	6233	.7648	.681	_	6488	.5653
1½-11½ 2-11½	1.9062 2.3812			_		.7815 .8145	.6098 .6428	.6655 .6985	3-3/ 4.0		1.7764 2.2514		.005	.723	_	6400 6730	.7815 .8145	.698		6655 6985	.5820 .6150
								•										•			

GAGE TOLERANCES

	I SAGE TOLLIN																			
	W TOLERANCE												X TOLERANCE							
	ı	PITCH D	IAMETI	ER		MAJ	OR & M	INOR		LEAD		PITCH DIAMETER					MAJOR & MINOR LEAD			
Threads per inch	To and incl. 1/2"dia.	Above 1/2" to 1 1/2" diameter	Above 1 1/2" to 4" diameter	Above 4" to 8" diameter	Above 8" to 12" diameter	To and incl. 1/2"diameter	Above 1/2" to 4" diameter	Above 4" Dia.	1/2 Angle Tol. 0 Deg.+/- Min.	To and incl. 1/2"	Above 1/2"	Threads per inch	To and incl. 1-1/2"	Above 1-1/2" to 4"	Above 4" to 8"	Above 8" to 12"	To and including 4" diameter	Above 4"	1/2 Angle Tol. 0 Deg.+/- Min.	Lead Tolerance
72	.0001	.00015				.0003	.0003		20'	.0001	.00015	80	.0002				.0003		30'	.0002
64	.0001	.00015				.0003	.0004		20'	.0001	.00015	72 64	.0002				.0003		30'	.0002
56	.0001	.00015	.0002			.0003	.0004		20'	.0001	.00015	56	.0002	.0003			.0004		30'	.0002
48 44	.0001	.00015	.0002			.0003	.0004		18' 15'	.0001	.00015	48	.0002	.0003			.0004		30'	.0002
40	.0001	.00015	.0002			.0003	.0004		15'	.0001	.00015	44	.0002	.0003			.0004		20'	.0002
36	.0001	.00015	.0002			.0003	.0004		12'	.0001	.00015	40	.0002	.0003			.0004		20'	.0002
32	.0001	.00015	.0002	.00025	.0003	.0003	.0005	.0007	12'	.0001	.00015	36	.0002	.0003			.0004		20'	.0002
28	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	32	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
27	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	28	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
24	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	27	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
20	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	24	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
18	.0001	.00015	.0002	.00025	.0003	.0005	.0005	.0007	8'	.00015	.00015	20	.0003	.0004	.0005	.0006	.0005	.0007	15'	.0003
16	.0001	.0002	.00025	.0003	.0004	.0006	.0006	.0009	8'	.00015	.00015	18	.0003	.0004	.0005	.0006	.0005	.0007	10'	.0003
<u>14</u> 13	.00015	.0002	.00025	.0003	.0004	.0006	.0006	.0009	6' 6'	.0002	.0002	16	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
12	.00015	.0002	.00025	.0003	.0004	.0006	.0006	.0009	6'	.0002	.0002	14	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
111/2	.00015	.0002	.00025	.0003	.0004	.0006	.0006	.0009	6'	.0002	.0002	13	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
11	.00015	.0002	.00025	.0003	.0004	.0006	.0006	.0009	6'	.0002	.0002	12	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
10		.0002	.00025	.0003	.0004		.0006	.0009	6'		.00025	11	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
9		.0002	.00025	.0003	.0004		.0007	.0011	6'		.00025	10 9	.0003	.0004	.0006	.0008	.0006	.0009	10'	.0003
8		.0002	.00025	.0003	.0004		.0007	.0011	5'		.00025	8	.0003	.0004	.0006	.0008 8000.	.0007	.0011	10' 5'	.0003
7		.0002	.00025	.0003	.0004		.0007	.0011	5'		.0003	7	.0004	.0005	.0006	.0008	.0007	.0011	5'	.0004
6		.0002	.00025	.0003	.0004		.0008	.0013	5'		.0003	6	.0004	.0005	.0006	.0008	.0007	.0013	5'	.0004
5 4½			.00025	.0003	.0004		.0008 8000.	.0013	4' 4'		.0003	5	.000+	.0005	.0006	.0008	.0008	.0013	5'	.0004
4 1/2			.00025	.0003	.0004		.0009	.0015	4'		.0003	41/4		.0005	.0006	.0008	.0008	.0013	5'	.0004
			.00023	.0003	.000-		.0003	.0010	-		.0003	4		.0005	.0006	.0008	.0009	.0015	5'	.0004
	•	ı I	' 			GAG	EMA	KEF	R'S 1	FOLE	RAN		СНА		.0000	.0000	.0003	.0010	<u> </u>	.0007
	ANGE				XXX		XXX			(X		Х		Y			Z		ZZ	
	009" to.82				0005"		.00001"			002"		00004"		.00007		.000			0020"	
	251" to 1.				0008"		.000015	"		0003"		00006"		.00000)12"		0024"	
	5101" to 2				001"		.00002"	"		0004"		00008"		.00012)16"		0032"	
2.:	5101" to	4.5100"		.00	0013"		.000025	**	.00	005").	00010"		.00015)"	.000	020"	.00	0040"	

RANGE	XXXX	XXX	XX	Х	Υ	Z	ZZ
.0009" to.8250"	.000005"	.00001"	.00002"	.00004"	.00007"	.0001"	.00020"
.8251" to 1.5100"	.000008"	.000015"	.00003"	.00006"	.00009"	.00012"	.00024"
1.5101" to 2.5101"	.00001"	.00002"	.00004"	.00008"	.00012"	.00016"	.00032"
2.5101" to 4.5100"	.000013"	.000025"	.00005"	.00010"	.00015"	.00020"	.00040"
4.5101" to 6.5100"	.000017"	.000033"	.000065"	.00013"	.00019"	.000250"	.00050"
6.5101" to 9.0100"	.00002"	.00004"	.00008"	.00016"	.00024"	.000320"	.00064"
9.0101" to 12.600"	.000025"	.00005"	.0001"	.0002"	.0003"	.000400"	.00080"

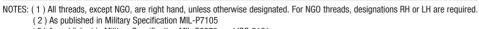
METRIC EQUIVALENTS

RANGE	XX	Х	Υ	Z	ZZ
.74mm to 20.96mm	.00051	.00102	.00178	.00254	.005
20.96mm to 38.35mm	.00076	.00152	.00229	.00305	.006
38.35mm to 63.75mm	.00102	.00203	.00305	.00406	.008
63.75mm to 114.55mm	.00127	.00254	.00381	.00508	.010
114.55mm to 163.35mm	.00165	.00330	.00483	.00635	.013
165.35mm to 228.85mm	.00203	.00406	.00610	.00813	.016
228.85mm to 311.40mm	.00254	.00508	.00762	.01016	.020

ANSI AND INTERNATIONAL THREAD SERIES DESIGNATIONS

Thread Check Inc. manufactures gages to the following **ANSI Thread Series Designations:**

Designations	Thread Series	Reference
UN	Unified Inch Screw Thread, Constant-Pitch Series	B1.1
UNC	Unified Inch Screw Thread, Coarse-Pitch Series Unified Inch Screw Thread, Coarse-Pitch Series	B1.1
UNF	Unified Inch Screw Thread, Fine-Pitch Series	B1.1
UNEF	Unified Inch Screw Thread, Extra-Fine Series	B1.1
UNS	Unified Inch Screw Thread, Extra-Fine Series Unified Inch Screw Thread, Special Diameter Pitch, or Length of Engagement	B1.1
UNJ	Unified Inch Screw Thread, Constant-Pitch Series with Rounded Root of Radius 0.15011P to 0.18042P (3)	B1.15
UNJC	Unified Inch Screw Thread, Coarse-Pitch Series, with Rounded Root of Radius 0.15011P to 0.18042P (3)	B1.15
UNJF	Unified Inch Screw Thread, Fine-Pitch Series, with Rounded Root of Radius 0.15011P to 0.18042P (3)	B1.15
UNJEF	Unified Inch Screw Thread, Extra-Fine Pitch Series, with Rounded Root of Radius 0.15011P to 0.18042P (3)	
UNR	Unified Inch Screw Thread, Constant-Pitch Series, with Rounded Root of Radius Not Less Than 0.108P	B1.13
UNRC	Unified Inch Screw Thread, Coarse-Pitch Series, with Rounded Root of Radius Not Less Than 0.108P	B1.1
UNRF	Unified Inch Screw Thread, Fine-Pitch Series, with Rounded Root of Radius Not Less Than 0.108P	B1.1
UNREF	Unified Inch Screw Thread, Extra-Fine Pitch Series, with Rounded Root of Radius Not Less Than 0.108P	B1.1
NC5	Class 5 Interference Fit External Threads	B1.12
NC5HF	For Driving in Hard Ferrous Material of Hardness over 160 Bhn	B1.12
NC5CSF	For Driving Copper Alloy and Soft Ferrous Material of 160 Bhn or Less	B1.12
NC50NF	For Driving in Other NonFerrous Material (Nonferrous Materials Other Than Copper Alloys, Any Hardness	B1.12
NC5	Class 5 Interference Fit Internal Threads	B1.12
NC5 IF	Entire Ferrous Material Range	B1.12
NC5 INF	Entire Nonferrous Material Range	B1.12
M	Metric Screw Threads-M Profile with Basic ISO 68 Profile Metric Screw Threads M I Profile with Bounded Post of Pedius 0.15011P to 0.19042P	B1.13M B1.18M
MJ	Metric Screw Threads-MJ Profile with Rounded Root of Radius 0.15011P to 0.18042P	B1.21M
MJS	Metric Screw Threads-MJ Profile Special Series	B1.21M
UNM	Unified Miniature Thread Series	B1.10
NPT	American Standard Taper Pipe Threads for General Use	B1.20.3
NPTF	Dryseal American Standard Taper Pipe Threads	B1.20.3B
F-PTF	,	.20.3 Appendix.C
PTF-SAE Short	Dryseal SAE Short Taper Pipe Threads	B1.20.3
PTF-SPL Short		.20.3 Appendix.C
PTF-SPL Extra Short		.20.3 Appendix.C
SPL-PTF		.20.3 Appendix.C
ANPT	Aeronautical National Form Taper Pipe Threads (2)	MIL P-7105B
NPSL	American Standard Straight Pipe Threads for Loose-Fitting Mechanical Joints with Locknuts	B1.20.1
NPSM	American Standard Straight Pipe Threads for Free-Fitting Mechanical Joints for Fixtures	B1.20.1
NPSC	American Standard Straight Pipe Threads in Pipe Couplings	B1.20.1
NPSF	Dryseal American Standard Fuel Internal Straight Pipe Threads	B1.20.3
NPSI	Dryseal American Standard Intermediate Internal Straight Pipe Threads	B1.20.3
NH	American Standard Hose Coupling Threads of Full Form	B1.20.7
NPSH	Dryseal American Standard for Hose Coupling Joints with Straight Internal & External Loose Fitting Threads	B1.20.7
NFPA 1963	Fire Hose Connections	
NHR	American Standard Hose Coupling Threads for Garden Hose Applications	B1.20.7
NGT	National Gas Taper Threads (See Also SGT)	CGA V-1
NGO	National Gas Outlet Threads (1)	CGA V-1
NGS	National Gas Straight Threads	CGA V-1
COT		BS.21
SGT	Special Gage Taper Threads	
R	British Taper Pipe Threads	BS.21
		BS.21 BS.21
R	British Taper Pipe Threads	BS.21
R Rc, Rp G BSW	British Taper Pipe Threads British Taper Pipe Threads	BS.21 BS.21
R Rc, Rp G	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads	BS.21 BS.21 BS.2779
R Rc, Rp G BSW BSF BA	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads British Parallel Screw Threads British Screw Threads	BS.21 BS.2779 BS.84 BS.84 BS.57
R Rc, Rp G BSW BSF BA ACME-C	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads	BS.21 BS.2779 BS.84 BS.84
R Rc, Rp G BSW BSF BA	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads British Parallel Screw Threads British Screw Threads	BS.21 BS.2779 BS.84 BS.84 BS.57
R Rc, Rp G BSW BSF BA ACME-C	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads British Parallel Screw Threads British Screw Threads Acme Threads, Centralizing	BS.21 BS.279 BS.84 BS.84 BS.57 B1.5
R Rc, Rp G BSW BSF BA ACME-C ACME-G	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads British Parallel Screw Threads British Screw Threads Acme Threads, Centralizing Acme Threads, General Purpose	BS.21 BS.279 BS.84 BS.84 BS.57 B1.5
R Rc, Rp G BSW BSF BA ACME-C ACME-G STUB ACME	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads British Parallel Screw Threads British Screw Threads Acme Threads, Centralizing Acme Threads, General Purpose Stub Acme Threads	BS.21 BS.279 BS.84 BS.84 BS.57 B1.5 B1.5
R Rc, Rp G BSW BSF BA ACME-C ACME-G STUB ACME BUTT	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads British Parallel Screw Threads British Screw Threads Acme Threads, Centralizing Acme Threads, General Purpose Stub Acme Threads Buttress Threads, Pull Type	BS.21 BS.279 BS.84 BS.84 BS.57 B1.5 B1.5 B1.8
R Rc, Rp G BSW BSF BA ACME-C ACME-G STUB ACME BUTT PUSH-BUTT	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads British Parallel Screw Threads British Screw Threads Acme Threads, Centralizing Acme Threads, General Purpose Stub Acme Threads Buttress Threads, Pull Type Buttress Threads, Push Type	BS.21 BS.279 BS.84 BS.84 BS.57 B1.5 B1.5 B1.8 B1.9
R Rc, Rp G BSW BSF BA ACME-C ACME-G STUB ACME BUTT PUSH-BUTT AMO	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads British Parallel Screw Threads British Screw Threads Acme Threads, Centralizing Acme Threads, General Purpose Stub Acme Threads Buttress Threads, Pull Type Buttress Threads, Push Type American Standard Microscope Objective Threads	BS.21 BS.279 BS.84 BS.84 BS.57 B1.5 B1.5 B1.8 B1.9 B1.9
R Rc, Rp G BSW BSF BA ACME-C ACME-G STUB ACME BUTT PUSH-BUTT AMO AWWA	British Taper Pipe Threads British Taper Pipe Threads Straight Pipe Threads British Parallel Screw Threads British Parallel Screw Threads British Parallel Screw Threads British Screw Threads Acme Threads, Centralizing Acme Threads, General Purpose Stub Acme Threads Buttress Threads, Pull Type Buttress Threads, Push Type American Standard Microscope Objective Threads Underground Service Line Valves and Fittings	BS.21 BS.279 BS.84 BS.84 BS.57 B1.5 B1.5 B1.8 B1.9 B1.9













⁽³⁾ As published in Military Specification MIL-S8879, and ISO 3161

STANDARD INCH PITCH DIAMETERS

Basic, 2B, 3B, 2A, & 3A

	Standard Inch Pitch Diameters																				
No.			Thread Work Plugs Thread Rings & Setting Plugs No.											<u> </u>	Threa	d Work P	lugs	Thread	Rings &	Setting	Plugs
-	Decimal . Size	TPI		Go Basic	2B Hi	3B Hi	3A Go		iss 2A Go	24 I n	or Fracs.	Decimal Size	TPI		Go Basic	2B Hi	3B Hi	3A Go	Clas	s 2A Go	24 I o
#0	.060	80	UNF	.0519	.0542	.0536	.0519	.0506	.0514	.0496	9/16	.5625	24	UNEF	.5354	.5405	.5392	.5354	.5325	.5342	.5303
#1	.073	64	UNC	.0629	.0655	.0648	.0629	.0614	.0623	.0603	5/8	.625	11	UNC	.5660	.5732	.5714	.5660	.5619	.5644	.5589
#1	.073	72	UNF	.0640	.0665	.0659	.0640	.0626	.0634	.0615	5/8	.625	18	UNF	.5889	.5949	.5934	.5889	.5854	.5875	.5828
#2	.086	56	UNC	.0744	.0772	.0765	.0744	.0728	.0738	.0717	5/8	.625	24	UNEF	.5979	.6031	.6018	.5979	.5949	.5967	.5927
#2	.086	64	UNF	.0759	.0786	.0779	.0759	.0744	.0753	.0733	11/16	.6875	24	UNEF	.6604	.6656	.6643	.6604	.6574	.6592	.6552
#3	.099	48	UNC	.0855	.0885	.0877	.0855	.0838	.0848	.0825	3/4	.75	10	UNC	.6850	.6927	.6907	.6850	.6806	.6832	.6773
#3	.099	56	UNF	.0874	.0902	.0895	.0874	.0858	.0867	.0845	3/4	.75	16	UNF	.7094	.7159	.7143	.7094	.7056	.7079	.7029
#4	.112	40	UNC	.0958	.0991	.0982	.0958	.0939	.0950	.0925	3/4	.75	20	UNEF	.7175	.7232	.7218	.7175	.7142	.7162	.7118
#4	.112	48	UNF	.0985	.1016	.1008	.0985	.0967	.0978	.0954	13/16	.8125	20	UNEF	.7800	.7857	.7843	.7800	.7767	.7787	.7743
#5	.125	40	UNC	.1088	.1121	.1113	.1088	.1069	.1080	.1054	7/8	.875	9	UNC	.8028	.8110	.8089	.8028	.7981	.8009	.7946
#5	.125	44	UNF	.1102	.1134	.1126	.1102	.1083	.1095	.1070	7/8	.875	14	UNF	.8286	.8356	.8339	.8286	.8245	.8270	.8216
#6	.138	32	UNC	.1177	.1214	.1204	.1177	.1156	.1169	.1141	7/8	.875	20	UNEF	.8425	.8482	.8468	.8425	.8392	.8412	.8368
#6	.138	40	UNF	.1218	.1252	.1243	.1218	.1198	.1210	.1184	15/16	.9375	20	UNEF	.9050	.9109	.9094	.9050	.9016	.9036	.8991
#8	.164	32	UNC	.1437	.1475	.1465	.1437	.1415	.1428	.1399	1	1	8	UNC	.9188	.9276	.9254	.9188	.9137	.9168	.9100
#8	.164	36	UNF	.1460	.1496	.1487	.1460	.1439	.1452	.1424	1	1	12	UNF	.9459	.9535	.9516	.9459	.9415	.9441	.9382
#10	.190	24	UNC	.1629	.1672	.1661	.1629	.1604	.1619	.1586	1	1	14	UNS	.9536	.9609	.9590	.9536	.9494	.9519	.9463
#10	.190	32	UNF	.1697	.1736	.1726	.1697	.1674	.1688	.1658	1	1	20	UNEF	.9675	.9734	.9719	.9675	.9641	.9661	.9616
#12	.216	24	UNC	.1889	.1933	.1922	.1889	.1863	.1879	.1845	1-1/16	1.0625	12	UN	1.0084	1.0158	1.0139	1.0084	1.0042	1.0067	1.0010
#12	.216	28	UNF	.1928	.1970	.1959	.1928	.1904	.1918	.1886	1-1/16	1.0625	18	UNEF	1.0264	1.0326	1.0310	1.0264	1.0228	1.0250	1.0203
#12	.216	32	UNEF	.1957	.1998	.1988	.1957	.1933	.1948	.1917	1-1/8	1.125	7	UNC	1.0322	1.0416	1.0393	1.0322	1.0268	1.0300	1.0228
1/4	.250	20	UNC	.2175	.2224	.2211	.2175	.2147	.2164	.2127	1-1/8	1.125	12	UNF	1.0709	1.0787	1.0768	1.0709	1.0664	1.0691	1.0631
1/4	.250	28	UNF	.2268	.2311	.2300	.2268	.2243	.2258	.2225	1-1/8	1.125	18	UNEF	1.0889	1.0951	1.0935	1.0889	1.0853	1.0875	1.0828
1/4	.250	32	UNEF	.2297	.2339	.2328	.2297	.2273	.2287	.2255	1-3/16	1.1875	12	UN	1.1334	1.1409	1.1390	1.1334	1.1291	1.1317	1.1259
5/16	.3125	18	UNC	.2764	.2817	.2803	.2764	.2734	.2752	.2712	1-3/16	1.1875	18	UNEF	1.1514	1.1577	1.1561	1.1514	1.1478	1.1499	1.1450
5/16	.3125	24	UNF	.2854	.2902	.2890	.2854	.2827	.2843	.2806	1-1/4	1.25	7	UNC	1.1572	1.1668	1.1644	1.1572	1.1517	1.1550	1.1476
5/16	.3125	32	UNEF	.2922	.2964	.2953	.2922	.2898	.2912	.2880	1-1/4	1.25	12	UNF	1.1959	1.2039	1.2019	1.1959	1.1913	1.1941	1.1879
3/8	.375	16	UNC	.3344	.3401	.3387	.3344	.3311	.3331	.3287	1-1/4	1.25	18	UNEF	1.2139	1.2202	1.2186	1.2139	1.2103	1.2124	1.2075
3/8	.375	24	UNF	.3479	.3528	.3516	.3479	.3450	.3468	.3430	1-5/16	1.3125	12	UN	1.2584	1.2659	1.2640	1.2584	1.2541	1.2567	1.2509
3/8	.375	32	UNEF	.3547	.3591	.3580	.3547	.3522	.3537	.3503	1-5/16	1.3125	18	UNEF	1.2764	1.2827	1.2811	1.2764	1.2728	1.2749	1.2700
7/16	.4375	14	UNC	.3911	.3972	.3957	.3911	.3876	.3897	.3850	1-3/8	1.375	6	UNC	1.2667	1.2771	1.2745	1.2667	1.2607	1.2643	1.2563
7/16	.4375	20	UNF	.4050	.4104	.4091	.4050	.4019	.4037	.3995	1-3/8	1.375	12	UNF	1.3209	1.3291	1.3270	1.3209	1.3162	1.3190	1.3127
7/16	.4375	28	UNEF	.4143	.4189	.4178	.4143	.4116	.4132	.4096	1-3/8	1.375	18	UNEF	1.3389	1.3452	1.3436	1.3389	1.3353	1.3374	1.3325
1/2	.50	12	UN	.4459	.4529	.4511	.4459	.4419	.4443	.4389	1-7/16	1.4375	12	UN	1.3834	1.3910	1.3891	1.3834	1.3790	1.3816	1.3757
1/2	.50	13	UNC	.4500	.4565	.4548	.4500	.4463	.4485	.4435	1-7/16	1.4375	18	UNEF	1.4014	1.4079	1.4062	1.4014	1.3977	1.3999	1.3949
1/2	.50	20	UNF	.4675	.4731	.4717	.4675	.4643	.4662	.4619	1-1/2	1.500	6	UNC	1.3917	1.4022	1.3996	1.3917	1.3856	1.3893	1.3812
1/2	.50	28	UNEF	.4768	.4816	.4804	.4768	.4740	.4757	.4720	1-1/2	1.500	12	UNF	1.4459	1.4542	1.4522	1.4459	1.4411	1.4440	1.4376
9/16	.5625	12	UNC	.5084	.5152	.5135	.5084	.5045	.5068	.5016	1-1/2	1.500	18	UNEF	1.4639	1.4704	1.4687	1.4639	1.4602	1.4624	1.4574
9/16	.5625	18	UNF	.5264	.5323	.5308	.5264	.5230	.5250	.5205											

METRIC PITCH DIAMETERS

6H Thread Work Plugs and 6g Thread Ring and Set Plugs

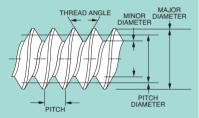
	6H Thre	ead Work I	Plugs		6g T	hread Rii	ngs & Sett	ing Plugs
Basic	mm Min. GO	Inch Min. GO	mm Max HI	Inch Max HI	mm Min. GO	Inch Min. GO	mm Max LO	Inch Max LO
M1.6 x .35	1.3730	.05406	1.4580	.05740	1.3540	.05331	1.2910	.05083
M1.8 x .35	1.5730	.06193	1.6580	.06528	1.5540	.06118	1.4910	.05870
M2 x .40	1.7400	.06850	1.8300	.07205	1.7210	.06776	1.6540	.06512
M2.2 x .45	1.9080	.07512	2.0030	.07886	1.8880	.07433	1.8170	.07154
M2.5 x .45	2.2080	.08693	2.3030	.09067	2.1880	.08614	2.1170	.08335
M3 x .5	2.6750	.10531	2.7750	.10925	2.6550	.10453	2.5800	.10157
M3.5 x .6	3.1100	.12244	3.2220	.12685	3.0890	.12161	3.0040	.11827
M4 x .7	3.5450	.13957	3.6630	.14421	3.5230	.13870	3.4330	.13516
M4.5 x .75	4.0130	.15799	4.1310	.16264	3.9910	.15713	3.9010	.15358
M5 x .8	4.4800	.17638	4.6050	.18130	4.4560	.17543	4.3610	.17169
M6 x 1	5.3500	.21063	5.5000	.21654	5.3240	.20961	5.2120	.20520
M7 x 1	6.3500	.25000	6.5000	.25591	6.3240	.24898	6.2120	.24457
M8 x 1.25	7.1880	.28299	7.3480	.28929	7.1600	.28189	7.0420	.27724
M8 x 1	7.3500	.28937	7.5000	.29528	7.3240	.28835	7.2120	.28394
M10 x 1.5	9.0260	.35535	9.2060	.36244	8.9940	.35409	8.8620	.34890
M10 x 1.25	9.1880	.36173	9.3480	.36803	9.1600	.36063	9.0420	.35598
M12 x 1.75	10.8630	.42768	11.0630	.43555	10.8290	.42634	10.6790	.42043
M12 x 1.25	11.1880	.44047	11.3680	.44756	11.1600	.43937	11.0280	.43417
M14 x 2	12.7010	.50004	12.9130	.50839	12.6630	.49854	12.5030	.49224
M14 x 1.5	13.0260	.51283	13.2160	.52031	12.9940	.51157	12.8540	.50606
M16 x 2	14.7010	.57878	14.9130	.58713	14.6630	.57728	14.5030	.57098
M16 x 1.5	15.0260	.59157	15.2160	.59906	14.9940	.59031	14.8540	.58480
M18 x 2.5	16.3760	.64472	16.6000	.65354	16.3340	.64307	16.1640	.63638
M18 x 1.5	17.0260	.67031	17.2160	.67780	16.9940	.66906	16.8540	.66354
M20 x 2.5	18.3760	.72346	18.6000	.73228	18.3340	.72181	18.1640	.71512
M20 x 1.5	19.0260	.74906	19.2160	.75654	18.9940	.74780	18.8540	.74228
M22 x 2.5	20.3760	.80220	20.6000	.81102	20.3340	.80055	20.1640	.79386
M22 x 1.5	21.0260	.82780	21.2160	.83528	20.9940	.82654	20.8540	.82102
M24 x 3	22.0510	.86815	22.3160	.87858	22.0030	.86626	21.8030	.85839
M24 x 2	22.7010	.89374	22.9250	.90256	22.6630	.89224	22.4930	.88555
M27 x 3	25.0510	.98626	25.3160	.99669	25.0030	.98437	24.8030	.97650
M27 x 2	25.7010	1.01185	25.9250	1.02067	25.6630	1.01035	25.4930	1.00366
M30 x 3.5	27.7270	1.09161	28.0070	1.10264	27.6740	1.08953	27.4620	1.08118
M30 x 2	28.7010	1.12996	28.9250	1.13878	28.6630	1.12846	28.4930	1.12177
M33 x 3.5	30.7270	1.20972	31.0070	1.22075	30.6740	1.20764	30.4620	1.19929
M33 x 2	31.7010	1.24807	31.9250	1.25689	31.6630	1.24657	31.4930	1.23988
M36 x 4	33.4020	1.31504	33.7020	1.32685	33.3420	1.31268	33.1180	1.30386
M36 x 3	34.0510	1.34059	34.3160	1.35102	34.0030	1.33870	33.8030	1.33083
M39 x 4	36.4020	1.43315	36.7020	1.44496	36.3420	1.43079	36.1180	1.42197
M39 x 3	37.0510	1.45870	37.3160	1.46913	37.0030	1.45681	36.8030	1.44894



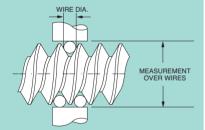
ThreadTech™V2.24 for Windows. The most complete and accurate screw thread program. See back cover.







SCREW THREAD NOTATION



THREE-WIRE METHOD



ThreadTech v2.24™ with new British Pipe Thread Module

A complete and accurate screw thread program

ThreadTech v2.24 for Windows provides data on pitch diameters, minor diameters, gage data, part data, tap data, helix angles, tolerances, crest and root flats, wire sizes, constants and just about anything on threads one would like to know.

ThreadTech v2.24 software is designed for engineers, quality assurance planners, and machinist to save time and to help eliminate human error. This simplifies thread manufacturing and inspection and eliminates time consuming computations and searches for specifications.

- Uses latest government and industry specifications.
- 60 degree English and Metric threads.
- Acme, pipe, STI, British buttress threads, and ISO metric trapezoidal threads
- Threads for Thread Plug Gages, Thread Ring Gages and Thread Setting Plugs
- Default sizes to agree with specifications.
- All diameters, angles, roots, flats, plated or not.
- · Pitch Diameter
- Minor Diameter
- · Helix Angles
- · Gage Data

The computer program prompts the user with questions which must be answered correctly before continuing to the next question. If the user inputs a dimensionforplating thicknesses or size combinations that are geometrically impossible or impractical, the program will halt until usable data is input. Metric 60 degree thread information is given in both English and Metric to make double dimensioning, manufacturing or inspection easier. Worm gearing calculations utilize both Vogel and Buckingham formulas.

All formulas and rounding off techniques are consistent with the latest ANSI and government specifications available.

ThreadTech even uses default data in cases where the applicable thread specifications do not agree with the calculated results derived by use of the formulas given but which the government and other

- Worm gearing calculations utilize Buckingham and Vogel formulas (various included angles).
- Part Data
- Tap Data
- Tolerances
- Crest and Root Flats
- Wire Sizes and Constants
- Measurement Over the Wires
- Standard Plating
- Anodize Plating
- HAE Plating
- · Metric and Inch Equivalent
- Asymetric Threads

specification writers have perpetrated the errors by not correcting them.

Easy to use: No computer skills are necessary to operate the ThreadTech. computer program. The program provides step by step on screen explanations. All data can be easily printed out. ThreadTech. v2.24 runs on Windows XP and Vista. Free unlimited technical support is provided.

NEW British pipe Thread Module featuring

- ISO 228 1 and ISO 228 2 for straight British pipe parts and gages
- ISO 7-1 and ISO 7-2 for tapered British pipe parts and gages
- DIN Part 3 and Part 9 trapezoidal threads for parts, rings gages, caliper gages, and plug gages

Download a FREE 10 day full functioning version of ThreadTech 2.24 at www.threadcheck.com.

ThreadTech was designed by a leading gage manufacturer, Osborn Products, Inc. and has been extensively tested to assure accuracy.

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