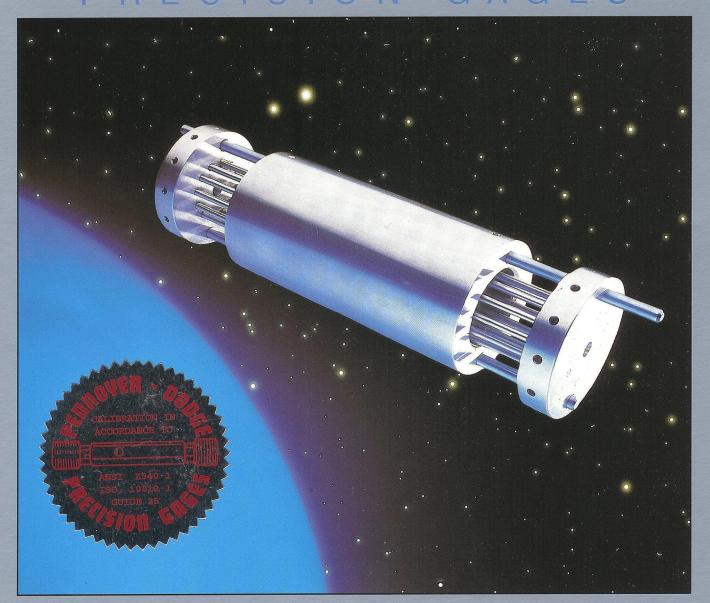
PENNERBODGE C O M P A N Y 1000 PRECISION GAGES



GAGING AND TOOLING SPECIALIST SINCE 1948

QUALITY

SALES

SERVICE



MESSAGE FROM THE PRESIDENT



Dear Customer,

Welcome to Pennoyer-Dodge Company! You are about to meet a family owned company that has been in the Precision Gage business since 1948. Pennoyer-Dodge Company is a leader in the manufacturing of all types of precision thread and cylindrical gages, as well as the design and manufacturing of special fixture gaging.

The basic philosophy of **Pennoyer-Dodge Company** has always been that our customers deserve our best effort. We know that quality and confidence is a prime concern in this competitive market.

The following pages will introduce you to consider the capabilities of our staff and our history of quality gaging as it relates to your individual problem areas.

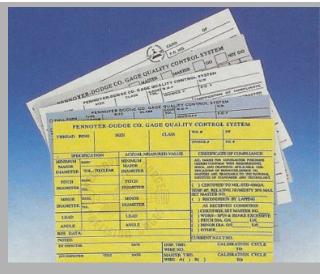
If you are already a customer, we would like to take this opportunity to thank you for your patronage. **Pennoyer-Dodge Company** values the opportunity to continue serving you for all your gaging needs.

Hazel L. Dodge

SALES AND SERVICE

When you buy from **Pennoyer-Dodge Company** you're buying proven quality and reliability. Our knowledgeable sales and engineering staff offer expert phone service in sales and technical information.

We invite you to phone us at (1-818-547-2100) and let our staff assist you with your gaging requirements.



CALIBRATION AND RECONDITIONING SERVICE

To aid customers in the calibration requirements of ISO 10012-1, ANSI/NCSL Z540-1, Mil-Std-45662A, Pennoyer-Dodge Company supplies complete certificates of calibration for all gages traceable to N.I.S.T. These certificates contain basic as well as actual measured values. Used gage certifications show not only the as-found values, but if reconditioned, we also include the new in-tolerance values. Sizeable cost and time saving can be achieved through this reconditioning process.





Robert Dodge

QUALITY CONTROL

Pennoyer-Dodge Company maintains a strict quality control program to insure the accuracy of its measurements. There is a in-process surveillance throughout the manufacturing process that insures the quality of our product. Final inspection is performed on all gauges by trained technicians in our environmentally controlled labs.

All Pennoyer-Dodge Company final inspection equipment is recalibrated on a designated recall schedule. The accuracy of all our final inspection equipment, measuring blocks and thread wires, are traceable to N.I.S.T. Pennoyer-Dodge Company maintains a quality control manual which adheres to the most stringent government requirements.





Pennoyer-Dodge Co.

Welcome to Pennoyer-Dodge Company!

SALES AND SERVICE

When you buy from **Pennoyer-Dodge Company** you're buying proven quality and reliability. Our knowledgeable sales and engineering staff offer expert phone service in sales and technical information. We invite you to call **1-818-547-2100 (Gage Quotes: pdbob@sbcglobal.net)** and let our staff assist you with your gaging requirements.

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QUALITY CONTROL

National Tooling & Machining Association

Member

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When you need it right and right away!



Accepted Methods of Payment COD, Net 30 days from date of invoice (upon credit approval),



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Pennoyer-Dodge Co.

Expedite Service

Our

Need R Now

- Where time is of the essence and normal delivery schedules won't do...
- We will be glad to help you with your "just in time" gaging needs...
- Try our *INEED IT NOW* 24 & 48 hour Expediting Service.
- Call our technical sales staff and let us know your specific requirements.

COMPANY HOURS 6:00AM to 4:30 PM P.S.T. - MONDAY-FRIDAY SATURDAYS 6:00AM TO NOON

"WE ARE HERE TO HELP YOU WITH ANY GAGING NEEDS"

PRICES SUBJECT TO CHANGE WITHOUT NOTICE 04/03/2023 Rev A

- 4 -



Pennoyer-Dodge Co. Taperlock Thread Plug Gages

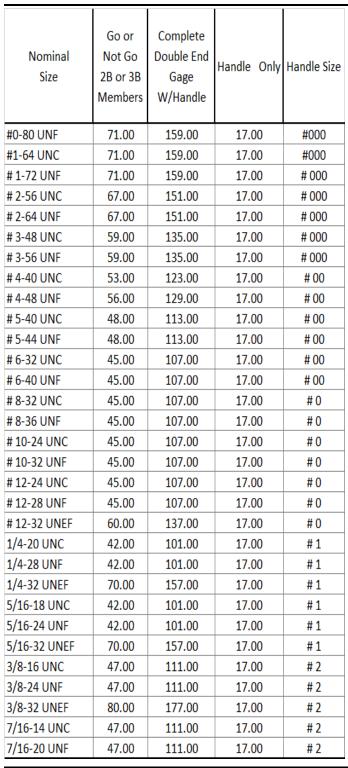
American Gage Design CLASS X RIGHT HAND

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and class of fit.
- Example: 1/4-28 UNF-2B
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end / special marking may be added for

an additional charge. (\$20.00 min). Handles ordered in colors other than Red or Green add \$20.00 per handle.

- 5. Long Form Calibration Reports are required, add \$20.00 per member.
- Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
 CHROME: Add 55% to each member.
- 8. "J" Series thread: Add \$10.00 per plug member.







Pennoyer-Dodge Co. Taperlock Thread Plug Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and class of fit.
- Example: 1/4-28 UNF-2B
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end / special marking may be added for

CLASS X RIGHT HAND TAPERLOCK THREAD PLUG GAGES				
Nominal Size	Go or Not Go 2B or 3B Members	Complete Double End Gage W/Handle	Handle Only	Handle Size
7/16-28 UNEF	80.00	177.00	17.00	# 2
1/2-13 UNC	47.00	111.00	17.00	# 2
1/2-20 UNF	47.00	111.00	17.00	# 2
1/2-28 UNEF	80.00	177.00	17.00	# 2
9/16-12 UNC	59.00	135.00	17.00	# 3
9/16-18 UNF	58.00	133.00	17.00	# 3
9/16-24 UNEF	90.00	197.00	17.00	# 3
5/8-11 UNC	61.00	139.00	17.00	# 3
5/8-18 UNF	59.00	135.00	17.00	# 3
5/8-24 UNEF	90.00	197.00	17.00	# 3
11/16-24 UNEF	90.00	197.00	17.00	# 3
3/4-10 UNC	63.00	143.00	17.00	# 3
3/4-16 UNF	61.00	139.00	17.00	# 3
3/4-20 UNEF	90.00	197.00	17.00	# 3
13/16-20 UNEF	99.00	215.00	17.00	# 3
7/8-9 UNC	73.00	163.00	17.00	#4
7/8-14 UNF	70.00	157.00	17.00	#4
7/8-20 UNEF	99.00	215.00	17.00	#4
15/16-20 UNEF	103.00	223.00	17.00	#4
1-8 UNC	82.00	181.00	17.00	#4
1-12 UNF	79.00	175.00	17.00	# 4
1-14 UNS	79.00	175.00	17.00	#4
1-20 UNEF	116.00	249.00	17.00	# 4
1 1/16-18 UNEF	120.00	257.00	17.00	#4
1 1/8-7 UNC	98.00	213.00	17.00	#4
1 1/8-12 UNF	95.00	207.00	17.00	#4
1 1/8-18 UNEF	120.00	257.00	17.00	# 4
1 3/16-18 UNEF	126.00	269.00	17.00	# 5
1 1/4-7 UNC	101.00	219.00	17.00	# 5
1 1/4-12 UNF	97.00	211.00	17.00	# 5
1 1/4-18 UNEF	126.00	269.00	17.00	# 5

CLASS X RIGHT HAND TAPERLOCK THREAD PLUG GAGES

an additional charge. (\$20.00 min). Handles ordered in colors other than Red or Green add \$20.00 per handle.

- 5. Long Form Calibration Reports are required, add \$20.00 per member.
- Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
 CHROME: Add 55% to each member.
- 8. "J" Series thread: Add \$10.00 per plug member.





Pennoyer-Dodge Co. Taperlock Thread Plug Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and class of fit.
- Example: 1/4-28 UNF-2B
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end / special marking may be added for

CLASS X RIGHT HAND TAPERLOCK THREAD PLUG GAGES				
Nominal Size	Go or Not Go 2B or 3B Members	Complete Double End Gage W/Handle	Handle Only	Handle Size
1 5/16-18 UNEF	136.00	289.00	17.00	# 5
1 3/8-6 UNC	112.00	241.00	17.00	# 5
1 3/8-12 UNF	107.00	231.00	17.00	# 5
1 3/8-18 UNEF	141.00	299.00	17.00	# 5
1 7/16-18 UNEF	148.00	313.00	17.00	# 5
1 1/2-6 UNC	122.00	261.00	17.00	# 5
1 1/2-12 UNF	117.00	251.00	17.00	# 5
1 1/2-18 UNEF	155.00	327.00	17.00	# 5

CLASS X RIGHT HAND TAPERI OCK THREAD PLUG GAGES

an additional charge. ($20.00\ \text{min}$). Handles ordered in colors other than Red or Green add $20.00\ \text{per}$ handle.

- 5. Long Form Calibration Reports are required, add \$20.00 per member.
- 6. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
 7. CHROME: Add 55% to each member.
- 8. "J" Series thread: Add \$10.00 per plug member.





Pennoyer-Dodge Co. **Reversible Thread Plug Gages**

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and class of fit.
- Example: 1/4-28 UNF-2B
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end.

- Handles ordered in colors other than Red or Green collets and other than plain handles, call for current pricing.
- 5. Special marking may be added for an additional charge. (\$20.00 min).
- 6. Long Form certifications are required, add \$20.00 per member. 7. Calibration stickers available @ $10.00\ per$ sticker (advise calibration cycle) 8. CHROME: Add 55% to each member.
- 9. If Trilock style desired, price upon application.

CLASS X RIGHT HAND REVERSIBLE THREAD PLUG GAGES				
	Go or	Complete		
Nominal	Not Go	Double End	Handle	Handle
Size	2B or 3B	Gage	Only	Size
	Members	W/Handle		
# 0-80 UNF	89.00	197.00	19.00	# 1W
# 1-64 UNC	89.00	197.00	19.00	# 1W
# 1-72 UNF	89.00	197.00	19.00	# 1W
# 2-56 UNC	77.00	173.00	19.00	# 2W
# 2-64 UNF	77.00	173.00	19.00	# 2W
# 3-48 UNC	77.00	173.00	19.00	# 2W
# 3-56 UNF	77.00	173.00	19.00	# 2W
# 4-40 UNC	68.00	155.00	19.00	# 2W
# 4-48 UNF	68.00	155.00	19.00	# 2W
# 5-40 UNC	68.00	155.00	19.00	# 2W
# 5-44 UNF	68.00	155.00	19.00	# 2W
# 6-32 UNC	62.00	143.00	19.00	# 2W
# 6-40 UNF	62.00	143.00	19.00	# 2W
# 8-32 UNC	62.00	143.00	19.00	# 2W
# 8-36 UNF	62.00	143.00	19.00	# 2W
# 10-24 UNC	62.00	143.00	19.00	# 3W
# 10-32 UNF	62.00	143.00	19.00	# 3W
# 12-24 UNC	62.00	143.00	19.00	# 3W
# 12-28 UNF	62.00	143.00	19.00	# 3W
1/4-20 UNC	61.00	141.00	19.00	# 3W
1/4-28 UNF	61.00	141.00	19.00	# 3W
5/16-18 UNC	61.00	144.00	22.00	# 4W
5/16-24 UNF	61.00	144.00	22.00	# 4W
3/8-16 UNC	63.00	148.00	22.00	# 4W
3/8-24 UNF	63.00	148.00	22.00	# 4W
7/16-14 UNC	63.00	148.00	22.00	# 5W
7/16-20 UNF	63.00	148.00	22.00	# 5W
1/2-13 UNC	63.00	148.00	22.00	# 5W
1/2-20 UNF	63.00	148.00	22.00	# 5W
9/16-12 UNC	90.00	207.00	27.00	# 6W
9/16-18 UNF	72.00	171.00	27.00	# 6W
5/8-11 UNC	72.00	171.00	27.00	# 6W
5/8-18 UNF	72.00	171.00	27.00	# 6W
3/4-10 UNC	79.00	185.00	27.00	# 7W
3/4-16 UNF	79.00	185.00	27.00	# 7W





Pennoyer-Dodge Co. S.T.I. Thread Plug Gages X-Tolerance

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and class of fit.
- Example: 1/4-28 UNF-2B S.T.I.
- 3. Go or Not Go or a complete double end.

4. Handles: Either single end or double end. Handles ordered in colors other

than Red or Green add \$20.00 per handle.

- 5. Special marking may be added for an additional charge. (\$20.00 min).
- ⁶. Long Form Calibration Reports are required, add \$20.00 per member.
- 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle) 8. "W" tolerance (Inspection Grade) add 30%. Must purchase long form calibration reports.
- 9. CHROME: Add 55% to each member.
- 10. "J" series thread add \$10.00 per plug member.

CLAS	CLASS X RIGHT HAND S.T.I. THREAD PLUG GAGES				
Nominal Size	Go and 2B, 3B Not Go Member	Complete Double End 2B, 3B Gage W/Handle	Handle Only	Handle Size	
# 2-56 UNC	74.00	165.00	17.00	# 00	
# 4-40 UNC	68.00	153.00	17.00	# 00	
# 4-48 UNF	68.00	153.00	17.00	# 00	
# 6-32 UNC	62.00	141.00	17.00	# 0	
# 6-40 UNF	62.00	141.00	17.00	# 0	
# 8-32 UNC	61.00	139.00	17.00	# 0	
# 10-24 UNC	62.00	141.00	17.00	# 0	
# 10-32 UNF	61.00	139.00	17.00	# O	
1/4-20 UNC	61.00	139.00	17.00	#1	
1/4-28 UNF	61.00	139.00	17.00	#1	
5/16-18 UNC	62.00	141.00	17.00	# 2	
5/16-24 UNF	61.00	139.00	17.00	#1	
3/8-16 UNC	62.00	141.00	17.00	# 2	
3/8-24 UNF	62.00	141.00	17.00	# 2	
7/16-14 UNC	67.00	151.00	17.00	# 3	
7/16-20 UNF	62.00	141.00	17.00	# 2	
1/2-13 UNC	68.00	153.00	17.00	# 3	
1/2-20 UNF	66.00	149.00	17.00	# 3	





Pennoyer-Dodge Co. Standard Thread Rings Gages

American Gage Design

How To Order

1. State Quantity desired. 2. Nominal size and threads per inch and class of fit. Example: 1/4-28 UNF-2A 3. Go or Not Go or a set of gages.

- 4. Special marking for an additional charge.(\$20.00 min.)
- 5. Long Form Calibration Reports are required, add \$20.00 per member
- 6. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle).
- 7. CHROME: Add 55% for sizes #10 and up, per ring.
- 8. For "J" series (MIL-S-8879 and SAE-AS-71051), ADD \$80.00 per Go ring.

CLASS X RIGHT HAND AGD THREAD RING GAGES				
Nominal Size	Go or Not Go 2A or 3A	Go & Not Go Sets 2A or 3A	Ring Holder	Ring Holder Size
# 0-80 UNF	175.00	350.00	25.00	1T
# 1-64 UNC	163.00	326.00	25.00	1T
# 1-72 UNF	163.00	326.00	25.00	1T
# 2-56 UNC	151.00	302.00	25.00	1T
# 2-64 UNF	151.00	302.00	25.00	1T
# 3-48 UNC	151.00	302.00	25.00	1T
# 3-56 UNF	151.00	302.00	25.00	1T
# 4-40 UNC	139.00	278.00	25.00	1T
# 4-48 UNF	139.00	278.00	25.00	1T
# 5-40 UNC	126.00	252.00	25.00	1T
# 5-44 UNF	126.00	252.00	25.00	1T
# 6-32 UNC	122.00	244.00	25.00	1T
# 6-40 UNF	122.00	244.00	25.00	1T
# 8-32 UNC	118.00	236.00	25.00	1T
# 8-36 UNF	118.00	236.00	25.00	1T
# 10-24 UNC	118.00	236.00	25.00	1T
# 10-32 UNF	118.00	236.00	25.00	1T
# 12-24 UNC	118.00	236.00	25.00	1T
# 12-28 UNF	118.00	236.00	25.00	1T
# 12-32 UNEF	144.00	288.00	25.00	1T
1/4-20 UNC	115.00	230.00	25.00	2T
1/4-28 UNF	115.00	230.00	25.00	2T
1/4-32 UNEF	144.00	288.00	25.00	2T
5/16-18 UNC	116.00	232.00	25.00	2T
5/16-24 UNF	116.00	232.00	25.00	2T
5/16-32 UNEF	144.00	288.00	25.00	2T
3/8-16 UNC	120.00	240.00	25.00	3T
3/8-24 UNF	120.00	240.00	25.00	3T
3/8-32 UNEF	145.00	290.00	25.00	3T
7/16-14 UNC	119.00	238.00	25.00	3T
7/16-20 UNF	119.00	238.00	25.00	3T
7/16-28 UNEF	145.00	290.00	25.00	3T
1/2-13 UNC	120.00	240.00	25.00	3T
1/2-20 UNF	120.00	240.00	25.00	3T
1/2-28 UNEF	147.00	294.00	25.00	3T
9/16-12 UNC	140.00	280.00	30.00	4T
9/16-18 UNF	140.00	280.00	30.00	4T





Pennoyer-Dodge Co. Standard Thread Rings Gages

American Gage Design

How To Order

1. State Quantity desired. 2. Nominal size and threads per inch and class of fit. Example: 1/4-28 UNF-2A 3. Go or Not Go or a set of gages.

- CLASS X RIGHT HAND AGD THREAD RING GAGES Go or Go & Not Nominal Ring Not Go Go Sets Ring Holder Size Holder Size 2A or 3A 2A or 3A 9/16-24 UNEF 162.00 324.00 30.00 4T 280.00 30.00 4T 5/8-11 UNC 140.00 5/8-18 UNF 140.00 280.00 30.00 4T 5/8-24 UNEF 184.00 368.00 30.00 4T 11/16-24 UNEF 184.00 368.00 30.00 4T 3/4-10 UNC 172.00 344.00 30.00 4T 3/4-16 UNF 169.00 338.00 30.00 4T 3/4-20 UNEF 210.00 420.00 30.00 4T 13/16-20 UNEF 210.00 420.00 30.00 4T 7/8-9 UNC 189.00 378.00 35.00 5T 7/8-14 UNF 185.00 370.00 35.00 5T 7/8-20 UNEF 221.00 442.00 35.00 5T 15/16-20 UNEF 221.00 442.00 35.00 5T 1-8 UNC 227.00 454.00 35.00 5T 1-12 UNF 224.00 448.00 35.00 5T 448.00 1-14 UNS 224.00 35.00 5T 1-20 UNEF 254.00 508.00 35.00 5T 289.00 578.00 35.00 5T 1 1/16-18 UNEF 1 1/8-7 UNC 289.00 578.00 35.00 5T 1 1/8-12 UNF 287.00 574.00 35.00 5T 1 1/8-18 UNEF 298.00 596.00 35.00 5T 6T 1 3/16-18 UNEF 298.00 596.00 40.00 1 1/4-7 UNC 299.00 598.00 40.00 6T 592.00 40.00 1 1/4-12 UNF 296.00 6T 1 1/4-18 UNEF 6T 310.00 620.00 40.00 620.00 40.00 6T 1 5/16-18 UNEF 310.00 1 3/8-6 UNC 310.00 620.00 40.00 6T 40.00 6T 1 3/8-12 UNF 304.00 608.00 1 3/8-18 UNEF 325.00 650.00 40.00 6T 1 7/16-18 UNEF 325.00 650.00 40.00 6T 1 1/2-6 UNC 680.00 40.00 6T 340.00 1 1/2-12 UNF 328.00 656.00 40.00 6T 1 1/2-18 UNEF 348.00 696.00 40.00 6T
- 4. Special marking for an additional charge.(\$20.00 min.)
- ^{5.} Long Form Calibration Reports are required, add \$20.00 per member.
- 6. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
- 7. CHROME: Add 55% for sizes #10 and up, per ring.
- 8. For "J" series (MIL-S-8879 and SAE-AS-71051), ADD \$80.00 per Go ring.





Pennoyer-Dodge Co. **Truncated Setting Plug Gages**

American Gage Design

How To Order

1. State Quantity desired. 2. Nominal size and threads per inch and

Call Toll Free 1-800-736-4243

than Red or Green add \$20.00 per handle.

- 5. Special marking may be added for an additional charge. (\$20.00 min). 6. Long Form Calibration Reports are required, add \$20.00 per member.
- 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)

- class of fit. Example: 1/4-28 UNF-2A
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end. Handles ordered in colors other

CLASS X P.D. RIGHT HAND TRUNCATED SETTING PLUG GAGES W-TOLON LEAD & ANGLE

	W-TOL C	<u>on lead & Ai</u>	VGLE	
	Go or	Complete		
Nominal	Not Go	Double End	Handle Only	Handle Size
Size	2A or 3A	Gage	nunuic only	Tranule Size
	Members	W/Handle		
# 0-80 UNF	120.00	257.00	17.00	# 000
# 1-64 UNC	120.00	257.00	17.00	# 000
# 1-72 UNF	120.00	257.00	17.00	# 000
# 2-56 UNC	120.00	257.00	17.00	# 000
# 2-64 UNF	120.00	257.00	17.00	# 000
# 3-48 UNC	108.00	233.00	17.00	# 000
# 3-56 UNF	108.00	233.00	17.00	# 000
# 4-40 UNC	102.00	221.00	17.00	# 00
# 4-48 UNF	102.00	221.00	17.00	# 00
# 5-40 UNC	102.00	221.00	17.00	# 00
# 5-44 UNF	102.00	221.00	17.00	# 00
# 6-32 UNC	98.00	213.00	17.00	# 00
# 6-40 UNF	98.00	213.00	17.00	# 00
# 8-32 UNC	98.00	213.00	17.00	# 0
# 8-36 UNF	98.00	213.00	17.00	# 0
# 10-24 UNC	98.00	213.00	17.00	# 0
# 10-32 UNF	98.00	213.00	17.00	# 0
# 12-24 UNC	102.00	221.00	17.00	# 0
# 12-28 UNF	102.00	221.00	17.00	# 0
# 12-32 UNEF	122.00	261.00	17.00	# 0
1/4-20 UNC	91.00	199.00	17.00	# 1
1/4-28 UNF	91.00	199.00	17.00	# 1
1/4-32 UNEF	124.00	265.00	17.00	# 1
5/16-18 UNC	91.00	199.00	17.00	# 1
5/16-24 UNF	91.00	199.00	17.00	# 1
5/16-32 UNEF	124.00	265.00	17.00	# 1
3/8-16 UNC	92.00	201.00	17.00	# 2
3/8-24 UNF	92.00	201.00	17.00	# 2
3/8-32 UNEF	145.00	307.00	17.00	# 2

- "W" Tolerance P.D.: add 30%.
 "J" Series thread: Add \$10.00 per plug member.
- 10.Full Form set plugs available upon request.





Pennoyer-Dodge Co. **Truncated Setting Plug Gages**

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and class of fit.
- Example: 1/4-28 UNF-2A
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end. Handles ordered in colors other

CLASS X P.D. RIGHT HAND TRUNCATED SETTING PLUG GAGES				
	W-TOL (ON LEAD & AI	NGLE	
	Go or	Complete		
Nominal	Not Go	Double End	Handle Only	Handle Size
Size	2A or 3A	Gage	nanule only	Handle Size
	Members	W/Handle		
7/16-14 UNC	<mark>95.00</mark>	207.00	17.00	# 2
7/16-20 UNF	95.00	207.00	17.00	# 2
7/16-28 UNEF	145.00	307.00	17.00	# 2
1/2-13 UNC	99.00	215.00	17.00	# 2
1/2-20 UNF	99.00	215.00	17.00	# 2
1/2-28 UNEF	150.00	317.00	17.00	# 2
9/16-12 UNC	113.00	243.00	17.00	# 3
9/16-18 UNF	113.00	243.00	17.00	# 3
9/16-24 UNEF	160.00	337.00	17.00	# 3
5/8-11 UNC	119.00	255.00	17.00	# 3
5/8-18 UNF	119.00	255.00	17.00	# 3
5/8-24 UNEF	165.00	347.00	17.00	# 3
11/16-24 UNEF	170.00	357.00	17.00	# 3
3/4-10 UNC	138.00	293.00	17.00	# 3
3/4-16 UNF	136.00	289.00	17.00	# 3
3/4-20 UNEF	172.00	361.00	17.00	# 3
13/16-20 UNEF	179.00	375.00	17.00	# 3
7/8-9 UNC	164.00	345.00	17.00	# 4
7/8-14 UNF	161.00	339.00	17.00	# 4
7/8-20 UNEF	189.00	395.00	17.00	# 4
15/16-20 UNEF	189.00	395.00	17.00	# 4
1-8 UNC	181.00	379.00	17.00	# 4
1-12 UNF	178.00	373.00	17.00	# 4
1-14 UNS	178.00	373.00	17.00	# 4
1-20 UNEF	205.00	427.00	17.00	# 4
1 1/16-18 UNEF	209.00	435.00	17.00	# 4
1 1/8-7 UNC	209.00	435.00	17.00	# 4
1 1/8-12 UNF	201.00	419.00	17.00	# 4
1 1/8-18 UNEF	220.00	457.00	17.00	# 4
1 3/16-18 UNEF	224.00	465.00	17.00	# 5

than Red or Green add \$20.00 per handle.

- 5. Special marking may be added for an additional charge. (\$20.00 min).
- 6. Long Form Calibration Reports are required, add \$20.00 per member.
- Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
 "W"Tolerance P.D.: add 30%.
 "J" Series thread: Add \$10.00 per plug member.
 Full Form set plugs available upon request.





Pennoyer-Dodge Co. Truncated Setting Plug Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and class of fit.
- Example: 1/4-28 UNF-2A
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end. Handles ordered in colors other

CLASS X P.D. RIGHT HAND TRUNCATED SETTING PLUG GAGES				
	W-TOL C	ON LEAD & AN	NGLE	
	Go or	Complete		
Nominal	Not Go	Double End	Handle Only	Handla Siza
Size	2A or 3A	Gage	natiule Only	Hanule Size
	Members	W/Handle		
1 1/4-7 UNC	215.00	447.00	17.00	# 5
1 1/4-12 UNF	210.00	437.00	17.00	# 5
1 1/4-18 UNEF	245.00	507.00	17.00	# 5
1 5/16-18 UNEF	245.00	507.00	17.00	# 5
1 3/8-6 UNC	245.00	507.00	17.00	# 5
1 3/8-12 UNF	243.00	503.00	17.00	# 5
1 3/8-18 UNEF	265.00	547.00	17.00	# 5
1 7/16-18 UNEF	265.00	547.00	17.00	# 5
1 1/2-6 UNC	265.00	547.00	17.00	# 5
1 1/2-12 UNF	263.00	543.00	17.00	# 5
1 1/2-18 UNEF	285.00	587.00	17.00	# 5

- than Red or Green add \$20.00 per handle.
- 5. Special marking may be added for an additional charge. (\$20.00 min).
- 6. Long Form Calibration Reports add \$20.00 per member.
- 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle) 8. "W" tolerance P.D.: add 30%.
- 9. "J" Series thread: Add \$10.00 per plug member.
- 10.Full Form set plugs available upon request.





Pennoyer-Dodge Co. *Progressive Setting Plug Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and class of fit.
- Example: 1/4-28 UNF-2A Progressive
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end. Handles ordered in colors other than Red or Green add \$20.00 per handle.

CLASS X P.D. RIGHT HAND PROGRESSIVE SETTING PLUG GAGES

W-TOL ON LEAD & ANGLE				
	Go or	Complete		
Nominal	Not Go	Double End	Usedla Osla	Usedla Ciss
Size	2A or 3A	Gage	Handle Only	Handle Size
	Members	W/Handle		
# 0-80 UNF	295.00	607.00	17.00	# 000
# 1-64 UNC	295.00	607.00	17.00	# 000
# 1-72 UNF	295.00	607.00	17.00	# 000
# 2-56 UNC	295.00	607.00	17.00	# 000
# 2-64 UNF	295.00	607.00	17.00	# 000
# 3-48 UNC	271.00	559.00	17.00	# 000
# 3-56 UNF	271.00	559.00	17.00	# 000
# 4-40 UNC	271.00	559.00	17.00	# 00
# 4-48 UNF	271.00	559.00	17.00	# 00
# 5-40 UNC	246.00	509.00	17.00	# 00
# 5-44 UNF	246.00	509.00	17.00	# 00
# 6-32 UNC	246.00	509.00	17.00	# 00
# 6-40 UNF	246.00	509.00	17.00	# 00
# 8-32 UNC	246.00	509.00	17.00	# 0
# 8-36 UNF	246.00	509.00	17.00	# 0
# 10-24 UNC	246.00	509.00	17.00	# 0
# 10-32 UNF	246.00	509.00	17.00	# 0
# 12-24 UNC	246.00	509.00	17.00	# 0
# 12-28 UNF	246.00	509.00	17.00	# 0
# 12-32 UNEF	308.00	633.00	17.00	# 0
1/4-20 UNC	207.00	431.00	17.00	# 1
1/4-28 UNF	207.00	431.00	17.00	# 1
1/4-32 UNEF	279.00	575.00	17.00	# 1
5/16-18 UNC	207.00	431.00	17.00	# 1
5/16-24 UNF	207.00	431.00	17.00	# 1
5/16-32 UNEF	306.00	629.00	17.00	# 1
3/8-16 UNC	220.00	457.00	17.00	# 2
3/8-24 UNF	220.00	457.00	17.00	# 2
3/8-32 UNEF	334.00	685.00	17.00	# 2
7/16-14 UNC	220.00	457.00	17.00	# 2
7/16-20 UNF	220.00	457.00	17.00	# 2
7/16-28 UNEF	334.00	685.00	17.00	# 2
1/2-13 UNC	240.00	497.00	17.00	# 2
1/2-20 UNF	240.00	497.00	17.00	# 2
1/2-28 UNEF	348.00	713.00	17.00	# 2

5. Special marking may be added for an additional charge. (\$20.00 min)

- 6. Long Form certifications are required, add \$40.00 per member.
- 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
- 8. J series thread add \$10.00 per plug member.



* Progressive master setting plugs differ from conventional truncated setting plugs in that the plug member contains two distinct P.D. limit areas. The limits are based on the Min. and Max. P.D. limits for the ring gage it will be used to inspect. The front portion contains the minimum P.D. limit with a full form major diameter, while the back portion contains the maximum P.D. limit with a truncated major diameter.



Pennoyer-Dodge Co. *Progressive Setting Plug Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and class of fit.
- Example: 1/4-28 UNF-2A Progressive
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end. Handles ordered in colors other than Red or Green add \$20.00 per handle.

CLASS X P.D. RIGHT HAND PROGRESSIVE SETTING PLUG GAGES				
		ON LEAD & AN	VGLE	
	Go or	Complete		
Nominal	Not Go	Double End	Handle Only	Handle Size
Size	2A or 3A	Gage	manule Only	Hanule Size
	Members	W/Handle		
9/16-12 UNC	266.00	549.00	17.00	# 3
9/16-18 UNF	262.00	541.00	17.00	# 3
9/16-24 UNEF	352.00	721.00	17.00	# 3
5/8-11 UNC	277.00	571.00	17.00	# 3
5/8-18 UNF	262.00	541.00	17.00	# 3
5/8-24 UNEF	359.00	735.00	17.00	# 3
11/16-24 UNEF	363.00	743.00	17.00	# 3
3/4-10 UNC	310.00	637.00	17.00	# 3
3/4-16 UNF	301.00	619.00	17.00	# 3
3/4-20 UNEF	367.00	751.00	17.00	# 3
13/16-20 UNEF	411.00	839.00	17.00	# 3
7/8-9 UNC	332.00	681.00	17.00	# 4
7/8-14 UNF	315.00	647.00	17.00	# 4
7/8-20 UNEF	425.00	867.00	17.00	# 4
15/16-20 UNEF	440.00	897.00	17.00	# 4
1-8 UNC	411.00	839.00	17.00	# 4
1-12 UNF	392.00	801.00	17.00	# 4
1-14 UNS	392.00	801.00	17.00	# 4
1-20 UNEF	464.00	945.00	17.00	# 4
1 1/16-18 UNEF	486.00	989.00	17.00	# 4
1 1/8-7 UNC	469.00	955.00	17.00	# 4
1 1/8-12 UNF	442.00	901.00	17.00	# 4
1 1/8-18 UNEF	486.00	989.00	17.00	# 4
1 3/16-18 UNEF	515.00	1047.00	17.00	# 5
1 1/4-7 UNC	515.00	1047.00	17.00	# 5
1 1/4-12 UNF	495.00	1007.00	17.00	# 5
1 1/4-18 UNEF	515.00	1047.00	17.00	# 5
1 5/16-18 UNEF	559.00	1135.00	17.00	# 5
1 3/8-6 UNC	592.00	1201.00	17.00	# 5
1 3/8-12 UNF	552.00	1121.00	17.00	# 5
1 3/8-18 UNEF	568.00	1153.00	17.00	# 5
1 7/16-18 UNEF	614.00	1245.00	17.00	# 5
1 1/2-6 UNC	563.00	1143.00	17.00	# 5
1 1/2-12 UNF	563.00	1143.00	17.00	# 5
1 1/2-18 UNEF	616.00	1249.00	17.00	# 5

5. Special marking may be added for an additional charge. (\$20.00 min)

- 6. Long Form certifications are required, add \$40.00 per member.
- 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
- 8. "J" series thread add \$10.00 per plug member.



* Progressive master setting plugs differ from conventional truncated setting plugs in that the plug member contains two distinct P.D. limit areas. The limits are based on the Min. and Max. P.D. limits for the ring gage it will be used to inspect. The front portion contains the minimum P.D. limit with a full form major diameter, while the back portion contains the maximum P.D. limit with a truncated major diameter.



Pennoyer-Dodge Co. Metric Thread Plug Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and threads per inch and
- class of fit. Example: 10.00 x 1.25-6H
- 3. Go or Not Go or a complete double end.
- Go of Not Go of a complete double end.
 Handles: Either single end or double end. Handles ordered in colors other

CLASS X RIGHT HAND METRIC THREAD PLUG GAGES				
Nominal Size	Go or Not Go 6h	Complete Double End Gage W/Handle	Handle Only	Handle Size
M1.6 x 0.35	78.00	173.00	17.00	# 000
M2.0 x 0.40	69.00	155.00	17.00	# 000
M2.5 x 0.45	66.00	149.00	17.00	# 000
M3.0 x 0.50	66.00	149.00	17.00	# 00
M3.5 x 0.60	61.00	139.00	17.00	# 00
M4.0 x 0.70	61.00	139.00	17.00	# 0
M5.0 x 0.80	61.00	139.00	17.00	# 0
M6.0 x 1.00	52.00	121.00	17.00	# 0
M8.0 x 1.25	52.00	121.00	17.00	# 1
M10 x 1.00	59.00	135.00	17.00	# 2
M10 x 1.25	55.00	127.00	17.00	# 2
M10 x 1.50	55.00	127.00	17.00	# 2
M12 x 1.25	55.00	127.00	17.00	# 2
M12 x 1.50	55.00	127.00	17.00	# 2
M12 x 1.75	55.00	127.00	17.00	# 2
M14 x 1.50	60.00	137.00	17.00	# 3
M14 x 2.00	60.00	137.00	17.00	# 3
M16 x 1.50	63.00	143.00	17.00	# 3
M16 x 2.00	63.00	143.00	17.00	# 3
M18 x 1.50	66.00	149.00	17.00	# 3
M18 x 2.50	66.00	149.00	17.00	#3

than Red or Green add \$20.00 per handle.

- 5. Special marking may be added for an additional charge. (\$20.00 min).
- 6. Long Form Calibration Reports are required add \$20.00 per member.
- 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
- 8. CHROME: Add 55% to each member.
- 9. For "MJ Series", Add \$10.00 per plug member.



(advise calibration cycle)



Pennoyer-Dodge Co. Metric Reversible Plug Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal metric size and metric threads
- per inch and class of fit. Example: 10.00 x 1.25-6H
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end. Handles ordered in colors other

than Red or Green collets and other than plain handles, call for current pricing.

CLASS X RIGHT HAND METRIC REVERSIBLE THREAD PLUG GAGES

Nominal Size	Go or Not Go 6h	Complete Double End Gage W/Handle	Handle Only	Handle Size
M1.6 x 0.35	98.00	213.00	17.00	# 1W
M2.0 x 0.40	90.00	197.00	17.00	# 2W
M2.5 x 0.45	90.00	197.00	17.00	# 2W
M3.0 x 0.50	79.00	175.00	17.00	# 2W
M3.5 x 0.60	79.00	175.00	17.00	# 2W
M4.0 x 0.70	74.00	165.00	17.00	# 2W
M5.0 x 0.80	74.00	165.00	17.00	# 3W
M6.0 x 1.00	72.00	161.00	17.00	# 3W
M8.0 x 1.25	68.00	156.00	20.00	# 4W
M10 x 1.25	74.00	168.00	20.00	# 5W
M10 x 1.50	74.00	168.00	20.00	# 5W
M12 x 1.25	74.00	168.00	20.00	# 5W
M12 x 1.50	74.00	168.00	20.00	# 5W
M12 x 1.75	74.00	168.00	20.00	# 5W

- 5. Special marking may be added for an additional charge. (\$20.00 min).
- ⁶ Long Form Calibration Reports are required, add \$20.00 per member.
- 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
- 8. CHROME: add 55% to each member.





Pennoyer-Dodge Co. Metric Thread Ring Gages

EXAMPLE: Add 55% for size 5.0mm and up, per ring.

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal metric size and metric threads
- per inch and class of fit. Example: 10.00 x 1.25-6g
- 3. Go or Not Go or a complete set of rings.

CLASS X RIGHT HAND METRIC THREAD RING GAGES								
Nominal Size	Go or Not Go 6g Rings	Go and Not Go 6g Pair of Rings	Ring Holder	Ring Holder Size				
M1.6 x 0.35	201.00	402.00	25.00	# 1T				
M2.0 x 0.40	173.00	346.00	25.00	# 1T				
M2.5 x 0.45	173.00	346.00	25.00	# 1T				
M3.0 x 0.50	153.00	306.00	25.00	# 1T				
M3.5 x 0.60	153.00	306.00	25.00	# 1T				
M4.0 x 0.70	144.00	288.00	25.00	# 1T				
M5.0 x 0.80	144.00	288.00	25.00	# 1T				
M6.0 x 1.00	128.00	256.00	25.00	# 1T				
M8.0 x 1.25	128.00	256.00	25.00	# 2T				
M10 x 1.25	135.00	270.00	25.00	# 3T				
M10 x 1.50	135.00	270.00	25.00	# 3T				
M12 x 1.25	139.00	278.00	25.00	# 3T				
M12 x 1.50	144.00	288.00	25.00	# 3T				
M12 x 1.75	144.00	288.00	25.00	# 3T				
M14 x 1.50	158.00	316.00	30.00	# 4T				
M14 x 2.00	158.00	316.00	30.00	# 4T				
M16 x 1.50	158.00	316.00	30.00	# 4T				
M16 x 2.00	158.00	316.00	30.00	# 4T				
M18 x 1.50	212.00	424.00	30.00	# 4T				
M18 x 2.50	248.00	496.00	30.00	# 4T				
M20 x 1.50	257.00	514.00	30.00	# 4T				
M20 x 2.50	257.00	514.00	30.00	# 4T				
M22 x 1.50	262.00	524.00	35.00	# 5T				

- Special marking may be added for an additional charge(\$20.00 min).
 Long Form Calibration Reports add \$20.00 per member.
 Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
- 7. CHROME: Add 55% for size 5.0mm and up, per ring
- 8. For "MJ Series", add \$80.00 per GO ring.





Pennoyer-Dodge Co. **Metric Truncated Setting Plug Gages**

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal metric size and metric threads per inch and class of fit.
- Example: 10.00 x 1.25-6g
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end. Handles ordered in colors other

CLASS X RIGHT HAND METRIC SETTING PLUG GAGES

CLA33 X 11	W-TOL ON LEAD & ANGLE									
Nominal Size	Go or Not Go 6g	Complete Double End Gage W/Handle	Handle Only	Handle Size						
M1.6 x 0.35	140.00	297.00	17.00	# 000						
M2.0 x 0.40	130.00	277.00	17.00	# 000						
M2.5 x 0.45	130.00	277.00	17.00	# 000						
M3.0 x 0.50	126.00	269.00	17.00	# 00						
M3.5 x 0.60	126.00	269.00	17.00	# 00						
M4.0 x 0.70	122.00	261.00	17.00	# 0						
M5.0 x 0.80	122.00	261.00	17.00	# 0						
M6.0 x 1.00	110.00	237.00	17.00	# 0						
M8.0 x 1.25	110.00	237.00	17.00	# 1						
M10 x 1.25	118.00	253.00	17.00	# 2						
M10 x 1.50	118.00	253.00	17.00	# 2						
M12 x 1.25	120.00	257.00	17.00	# 2						
M12 x 1.50	120.00	257.00	17.00	# 2						
M12 x 1.75	120.00	257.00	17.00	# 2						
M14 x 1.50	140.00	297.00	17.00	# 3						
M14 x 2.00	140.00	297.00	17.00	# 3						
M16 x 1.50	140.00	297.00	17.00	# 3						
M16 x 2.00	140.00	297.00	17.00	#3						
M18 x 1.50	151.00	319.00	17.00	#3						
M18 x 2.50	155.00	327.00	17.00	#3						
M20 x 1.50	155.00	327.00	17.00	# 3						
M20 x 2.50	155.00	327.00	17.00	#3						
M22 x 1.50	212.00	441.00	17.00	# 4						

than Red or Green add \$20.00 per handle.

- 5. Special marking may be added for an additional charge. (\$20.00 min).
- 6. Long Form Calibration Reports are required, add \$20.00 per member.
- Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
 "W" tolerance P.D.: add 30%.
 Full Form set plugs available upon request.

- 10. For "MJ Series", add \$10.00





Pennoyer-Dodge Co. NPTF Taper Pipe Ring & Plug Gages

American Gage Design

How To Order

- State Quantity desired.
 Nominal size and L-1, L-2, or plain
- taper for ring gages and L-1, L-3, or
- plain taper for plug gages.
- Example: 1/16-27 NPTF L-2 RING
- 3. Handles: Either single end or double end. Handles ordered in colors other
- than Red or Green add \$20.00 each per handle.
- 4. Special marking for an additional charge, (\$20.00 min.)
- NPTF plugs come with one basic step. If MN and /or MX steps desired, add \$35.00 per each additional step 1/16-27 to 1 1/2, Above 1 1/2, \$50.00.
- 6. Long Form Calibration Reports are required, add \$20.00 per member.
- 7 Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)

Nominal Size	L-1 Ring Gage	L-2 ring Gage	Plain Taper Ring Gage	L-1 Plug Gage	L-3 Plug Gage	Plain Taper Plug Gage	Handle Only	Handle Size
1/16 - 27	275.00	321.00	350.00	125.00	145.00	225.00	17.00	#1
1/8 - 27	245.00	321.00	350.00	113.00	115.00	225.00	17.00	#2
1/4 - 18	240.00	330.00	350.00	117.00	120.00	225.00	17.00	#3
3/8 - 18	250.00	330.00	350.00	138.00	145.00	225.00	17.00	#3
1/2 - 14	265.00	345.00	350.00	153.00	160.00	225.00	17.00	#4
3/4 - 14	290.00	367.00	396.00	165.00	180.00	248.00	17.00	#4
1 - 11.5	315.00	409.00	420.00	184.00	202.00	261.00	17.00	#5
1 1/4 - 11.5	373.00	460.00	450.00	204.00	215.00	275.00	17.00	#5
1 1/2 - 11.5	391.00	490.00	510.00	232.00	240.00	302.00	17.00	#5
2 - 11.5	480.00	573.00	560.00	280.00	285.00	412.00	17.00	#5
2 1/2 - 8	545.00	683.00	655.00	440.00	450.00	616.00	28.00	#6
3 - 8	669.00	806.00	795.00	490.00	495.00	675.00	28.00	#6



NOTE:

Master gages for NPT working gages are L-1 design.

Master gages for NPTF working gages are special design to encompass the L-1 and L-3 length for the master ring and the L-2 and L-3 length on the master plug. A set consists of (1) master plug and (1) master ring.

MIL-P-7105B and SAE-AS-71051 does not specify design on ANPT master. Pennoyer-Dodge Co. designs these masters the same as the NPTF.



Pennoyer-Dodge Co. ANPT Taper Pipe Ring & Plug Gages

American Gage Design

How To Order

1. State Quantity desired.

2. Nominal size and L-1, L-2, or

plain taper for ring gages and L-1,

L-3, or plain taper for plug gages.

Example: 1/16-27 ANPT L-1 RING

than Red or Green add \$20.00 each per handle

4. Special marking for an additional charge, (\$20.00 min.)

5. ANPT plugs come with one basic step. If MN and /or MX steps desired, add \$35.00 per each additional step 1/16-27 to 1 1/2, Above 1 1/2, \$50.00.
6.Long Form Calibration Reports are required, add \$20.00 per member.

7 Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)

3. Handles: Either single end or double end. Handles ordered in colors other

Nominal Size	L-1 Ring Gage	L-2 ring Gage	Plain Taper Ring Gage	L-1 Plug Gage	L-3 Plug Gage	Plain Taper Plug Gage	Handle Only	Handle Size
1/16 - 27	275.00	326.00	355.00	180.00	220.00	225.00	17.00	#1
1/8 - 27	245.00	326.00	355.00	180.00	180.00	225.00	17.00	#2
1/4 - 18	240.00	330.00	355.00	180.00	180.00	225.00	17.00	#3
3/8 - 18	250.00	330.00	355.00	170.00	180.00	225.00	17.00	#3
1/2 - 14	265.00	345.00	355.00	160.00	180.00	225.00	17.00	#4
3/4 - 14	290.00	387.00	397.00	184.00	185.00	248.00	17.00	#4
1 - 11.5	315.00	419.00	420.00	187.00	220.00	261.00	17.00	#5
1 1/4 - 11.5	373.00	468.00	450.00	204.00	220.00	275.00	17.00	#5
1 1/2 - 11.5	391.00	492.00	510.00	232.00	225.00	302.00	17.00	#5
2 - 11.5	480.00	586.00	560.00	280.00	265.00	412.00	17.00	#5
2 1/2 - 8	545.00	697.00	657.00	440.00	425.00	635.00	28.00	#6
3 - 8	669.00	823.00	803.00	490.00	480.00	689.00	28.00	#6



NOTE:

Master gages for NPT working gages are L-1 design.

Master gages for NPTF working gages are special design to encompass the L-1 and L-3 length for the master ring and the L-2 and L-3 length on the master plug. A set consists of (1) master plug and (1) master ring.

MIL-P-7105B and SAE-AS-71051 does not specify design on ANPT master. Pennover-Dodge Co. designs these masters the same as the NPTF.



Pennoyer-Dodge Co. NPT Taper Pipe Ring & Plug Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal size and L-1 for ring gages or for plug gages.
- Example: 1/16-27 NPT L-1 RING or 1/16-27 NPT L-1 PLUG
- 3. Handles: Either single end or double end. Handles ordered in colors other than Red or Green add \$20.00 each per handle.

NPT TAPER PIPE THREAD GAGES									
Nominal Size	L-1 Ring Gage	L-1 Plug Gage	Handle Only	Handle Size					
1/16-27	275.00	110.00	17.00	# 1					
1/8-27	225.00	84.00	17.00	# 2					
1/4-18	235.00	86.00	17.00	# 3					
3/8-18	245.00	95.00	17.00	#3					
1/2-14	265.00	108.00	17.00	# 4					
3/4-14	285.00	122.00	17.00	# 4					
1"- 11.5	310.00	135.00	17.00	# 5					
1 1/4 - 11.5	373.00	150.00	17.00	# 5					
1 1/2 - 11.5	391.00	170.00	17.00	# 5					
2" - 11.5	480.00	205.00	17.00	# 5					
2 1/2 - 8	545.00	255.00	28.00	# 6					
3"- 8	597.00	295.00	28.00	# 6					
3 1/2 - 8	821.00	440.00	32.00	# 7					
4" - 8	1007.00	485.00	32.00	# 7					
5" - 8	1176.00	690.00	32.00	# 7					
6" - 8	1380.00	810.00	32.00	#7					

- Special marking for an additional charge, (\$20.00 min.)
 NPT plugs come with one basic step. If MN and /or MX steps desired, add \$35.00 per each additional step 1/16-27 to 1 1/2, Above 1 1/2, \$50.00.
- 6. Long Form Calibration Reports are required, add \$20.00 per member.
- 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)



NOTE:

Master gages for NPT working gages are L-1 design.

Master gages for NPTF working gages are special design to encompass the L-1 and L-3 length for the master ring and the L-2 and L-3 length on the master plug. A set consists of (1) master plug and (1) master ring.

MIL-P-7105B and SAE-AS-71051 does not specify design on ANPT master. Pennoyer-Dodge Co. designs these masters the same as the NPTF.



Pennoyer-Dodge Co. Cylindrical Taperlock Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal decimal size and tolerance class. Examples: .1500 class XX Go member, .1500 XX Go S.E., .1500 - .1509 XX D.E. Gage.

3. Go or Not Go or a complete double end.

- Handles, either single end or double end. Handles ordered in colors other than Red or Green add \$20.00 per handle.
- Special marking may be added for an additional charge. (\$20.00 min).
 Long Form calibration reports must be purchased on all classes: add \$20.00
- Long Form calibration reports must be purchased on all classes: add \$20. per member.
- 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
- 8. CHROME: Add 55% to each member.

	CYLINDRICAL TAPERLOCK GAGES										
Nominal Size		Go Class XX Members	Not Go Class XX Members	Go & Not Go D.E. Class XX W/Handle	Go Class X Members	Not Go Class X Members	Go & Not Go D.E. Class X W/Handle	Go Class Y & Z Members	Not Go Class Y & Z Momboro	Go & Not Go D.E. Class Y & Z	Handle Only
Above	To & Incl			w/ nativie	WEINDERS		w/manuic		Members	W/Handle	
0.059 (1.499mm)	0.105 (2.667mm)	88.00	81.00	186.00	77.00	64.00	158.00	66.00	64.00	1 47.00	17.00
0.105 (2.667mm)	0.230 (5.842mm)	76.00	75.00	168.00	66.00	61.00	144.00	63.00	61.00	1 41.00	17.00
0.230 (5.842mm)	0.510 (12.954mm)	76.00	75.00	168.00	66.00	62.00	145.00	64.00	62.00	1 43.00	17.00
0.510 (12.954mm)	0.825 (20.955mm)	84.00	83.00	184.00	72.00	67.00	156.00	69.00	66.00	<mark>1</mark> 52.00	17.00
0.825 (20.955mm)	1.135 (28.829mm)	87.00	<mark>8</mark> 5.00	189.00	75.00	70.00	162.00	72.00	69.00	1 58.00	17.00
1.135 (28.829mm)	1.510 (38.354mm)	89.00	88.00	194.00	83.00	76.00	176.00	74.00	70.00	<mark>1</mark> 61.00	17.00





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PENNOYER-DODGE CO. 1-800-736-4243



American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal decimal size and tolerance class and Go, Not Go or Master. Examples: 1500 class XX Go member, 1500 XX Go S.E.,
 - .1500 .1509 XX D.E. Gage.
- 3. Types: Go, Not Go or Master, single end or a complete double end.

4. Handles: Either single end or double end. Handles ordered in colors other than Red or Green collets and other than plain handles, call for current pricing.

Special marking may be added for an additional charge. (\$20.00 min).
 Long Form calibration reports must be purchased on all classes: add \$20.00

 Long Form ca per member.

. 7. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)

- 8. All pin style above 1.010, price upon application.
- 9 CHROME: Add 55% to each member.
- Sizes < .080, price upon application.
- XXX gages price upon application, on sizes .125 and larger.
 Use Z prices shown below for inch sizes in thousands and half thousands, and two decimal places metric sizes. For Z pin sizes other than this, use X & Y column pricing.
- 12. Extra length gages available, price on application.

	CYLINDRICAL REVERSABLE GAGES									
Nominal Size		Class XX Member	Class XX Double End	Class X & Y MemberS	Class X & Y Double End	Class Z Members	Class Z Double End	Handle Only		
Above	To & Incl		LIIU		LIIU		Ena			
.035 (0.889mm)	.075 (1.905mm)	90.00	199.00	66.00	151.00	53.00	125.00	19.00		
.075 (1.905mm)	.100 (2.540mm)	90.00	199.00	66.00	151.00	53.00	125.00	19.00		
.100 (2.540mm)	.180 (4.572mm)	81.00	181.00	58.00	135.00	46.00	111.00	19.00		
.180 (4.572mm)	.510 (12.954mm)	81.00	184.00	58.00	138.00	46.00	114.00	22.00		
.510 (12.954mm)	.760 (19.304mm)	90.00	207.00	66.00	159.00	49.00	125.00	27.00		
.760 (19.304mm)	1.010 (25.654mm)	113.00	263.00	81.00	199.00	67.00	171.00	37.00		



Handle Size	Above	To & Including
1W	.030	.075
2W	.075	.180
3W	.180	.281
4W	.281	.406
5W	.406	.510
6W	.510	.635
7W	.635	.760
8W	.760	1.010



Pennoyer-Dodge Co. Cylindrical Trilock Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- Nominal decimal size and tolerance class class and Go, Not Go or Master. Examples: .1500 class XX Go member, .1500 XX Go S.E., .1500 - .1509 XX D.E. Gage.
- 3. Go or Not Go or a complete double end.
- 4. Handles: Either single end or double end. Handles ordered in colors other than Red or Green add \$20.00 per handle.
- Special marking may be added for an additional charge. (\$20.00 min).
 Long Form calibration reports must be purchased on all classes: add \$20.00 per member.
- per member. 7 Calibration stickers available @ \$10.00 per sticker (advise calibration cycle) 8 All pin style above .760 up to and including 1.500 price upon application.
- All trilock style from .760 up to and including 1.500 price upon application.
- 10. CHROME: Add 55% to each member
- 11.XXX gages quoted upon request.

	CYLINDRICAL TRILOCK GAGES										
Nomir	nal Size	Go Class XX Members	Not Go Class XX Members	Go & Not Go Double End Class XX	Go Class X Members	Not Go Class X Members	Go & Not Go Double End Class X	Go Class Y & Z	Not Go Class Y & Z	Go & Not Go Double End Class Y & Z	Handle Only
Above	To & Incl.			W/Handle			W/Handle	Members	Members	W/Handle	
1.510 (38.354mm)	2.010 (51.054mm)	127.00	122.00	277.00	119.00	107.00	254.00	116.00	103.00	247.00	28.00
2.010 (51.054mm)	2.510 (63.754mm)	153.00	135.00	316.00	131.00	118.00	277.00	119.00	110.00	257.00	28.00
2.510 (63.754mm)	3.010 (76.454mm)	178.00	153.00	395.00	154.00	123.00	341.00	131.00	121.00	316.00	32.00
3.010 (76.454mm)	3.510 (89.154mm)	260.00	205.00	529.00	219.00	193.00	476.00	193.00	178.00	435.00	32.00





Pennoyer-Dodge Co. Cylindrical Progressive Gages

American Gage Design

How To Order

- 1. State Quantity desired.
- 2. Nominal decimal size and tolerance class and Go, Not Go or Master. Examples: .1500 class XX Go member, .1500 XX Go S.E.,
- .1500 .1509 XX D.E. Gage. 3. Handles: Either single end or double end. Handles ordered in colors other than Red or Green add \$20.00 per handle.
- 4. Special marking may be added for an additional charge. (\$20.00 min).
- 5. Long Form calibration reports must be purchased on all classes: add 4.00 per member.
- 6. Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
- 7. CHROME: Add 55% to each member.

CYLINDRICAL PROGRESSIVE GAGES									
Non Si: Above		Class XX Members	Class X Members	Class Y & Z Members	Handle Only				
.059 (1.499mm)	.105 (2.667mm)	C.I.Q	C.I.Q.	C.I.Q.	17.00				
.105 (2.667mm)	.150 (3.810mm)	129.00	117.00	109.00	17.00				
.150 (3.810mm)	.185 (4.699mm)	127.00	115.00	104.00	17.00				
.185 (4.699mm)	.230 (5.842mm)	129.00	115.00	105.00	17.00				
.230 (5.842mm)	.365 (9.271mm)	129.00	115.00	106.00	17.00				
.365 (9.271mm)	.510 (12.954mm)	131.00	115.00	108.00	17.00				
.510 (12.954mm)	.635 (16.129mm)	140.00	125.00	115.00	17.00				
.635 (16.129mm)	.760 (19.304mm)	140.00	125.00	115.00	17.00				
.760 (19.304mm)	.825 (20.955mm)	142.00	125.00	115.00	17.00				
.825 (20.955mm)	1.135 (28.829mm)	156.00	133.00	129.00	17.00				
1.135 (28.829mm)	1.510 (38.354mm)	178.00	139.00	130.00	17.00				





Pennoyer-Dodge Co. Cylindrical Ring Gages

American Gage Design

How To Order

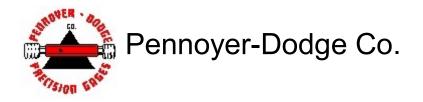
1. State Quantity desired. 2. Nominal decimal size and tolerance class.

- Calibration stickers available @ \$10.00 per sticker (advise calibration cycle)
 CHROME: Add 55% per ring for .125 and up.
- 8. XXX Master rings quoted upon request.

- Example: .150 class XX 3. Go or Not Go or a Master ring.
- 4. Special marking may be added for an additional charge. (\$20.00 min). 5. Long Form calibration reports must be purchased on all classes: add \$20.00
- per member.

CYLINDRICAL RING GAGES								
Norr Siz		Class XX	Class X	Class Y & Z				
Above	Members	Members	Members					
.062 (1.575mm)	.070 (1.778mm)	222.00	204.00	195.00				
.070 (1.778mm)	.090 (2.286mm)	211.00	171.00	164.00				
.090 (2.286mm)	.150 (3.810mm)	211.00	171.00	163.00				
.150 (3.810mm)	.230 (5.842mm)	171.00	154.00	147.00				
.230 (5.842mm)	.365 (9.271mm)	143.00	132.00	125.00				
.365 (9.271mm)	.510 (12.954mm)	150.00	132.00	125.00				
.510 (12.954mm)	.825 (20.955mm)	171.00	154.00	147.00				
.825 (20.955mm)	1.135 (28.829mm)	177.00	157.00	154.00				
1.135 (28.829mm)	1.510 (38.354mm)	188.00	176.00	168.00				
1.510 (38.354mm)	2.010 (51.054mm)	222.00	198.00	190.00				
2.010 (51.054mm)	2.510 (63.754mm)	285.00	242.00	233.00				
2.510 (63.754mm)	3.010 (76.454mm)	314.00	264.00	255.00				
3.010 (76.454mm)	3.510 (89.154mm)	382.00	325.00	314.00				
3.510 (89.154mm)	4.010 (101.854mm)	428.00	374.00	363.00				
4.010 (101.854mm)	4.760 (120.904mm)	496.00	413.00	401.00				
4.760 (120.904mm)	5.510 (139.954mm)	650.00	523.00	509.00				





Gage Re-Calibration Charges

The following **"Standard Published"** prices are for calibration of customer submitted thread plugs; thread rings; pipe plugs and rings; and cylindrical plug and rings *regardless of calibration results*. Expedited, safety related and Special Calibration charges are priced on application and will not be waived, regardless of the calibration results.

> **Pennoyer-Dodge Co.** also manufacture's and/or calibrates many other types of gages. Please call/fax your inquiries.

Calibration of gages in accordance to ISO 10012-1, ANSI/NCSL Z540-1, Mil-Std-45662A. Minimum order is \$50.00

THREAD PLUGS (PER MEMBER)	STANDARDS	SET PLUGS	PIPE	SIX STEP
ANY SIZE 60 DEGREE & METRIC'S FROM # 0 THRU 3"	35.00	45.00	70.00	75.00
OVER 3" TO 6"	50.00	60.00	CALL	CALL
OVER 6" and High/Low	CALL FOR CURRENT PRICING	CALL FOR CURRENT PRICING	CALL FOR CURRENT PRICING	CALL FOR CURRENT PRICING

THREAD RINGS (PER RING)	STANDARDS	PIPE	SIX STEP
STANDARD UNC, UNF AND UNEF FROM # 0 TO 1 1/2"	45.00		85.00
SPECIALS 0-80 TO 3" (60 DEGREE)	75.00	95.00	95.00
OVER 3" (60 DEGREE)	CALL FOR CURRENT PRICING	CALL FOR CURRENT PRICING	CALL FOR CURRENT PRICING

CYLINDRICAL PLUGS	PER MEMBER	
UP TO .020	CALL FOR CURRENT PRICING	
Above .020 THRU 5.00	40.00	
OVER 5.00	CALL FOR CURRENT PRICING	
FOR XXX TOL. CALIBRATION	CALL FOR CURRENT PRICING	
CYLINDRICAL RINGS	PER MEMBER	
.059 THRU .125	85.00	
Above .125 THRU 4.010	75.00	
Above 4.010 THRU 6.010	85.00	
OVER 6.010	CALL FOR CURRENT PRICING	
FOR XXX TOL. CALIBRATION	CALL FOR CURRENT PRICING	



Pennoyer-Dodge Co.

Special Gage Listing Special Precision Gages Now Manufactured by Pennoyer-Dodge Company

PLUG GAGES - THREAD

Standard 60° N.F., N.C., UNC, UNF, UNJ, UNJF, NEF, UNEF Setting "X" and "W" tol. S.T.I. "X" and "W" tol. Acme 29° Stub & Trapizodial Threads **Buttress Threads** Metric Threads Whitworth 55° Stright Pipe, NPSC,NPSF,NPSI, NPSM, NPSL Taper Pipe, NPT, NPTF. ANPT. BSP Taper Pipe, Setting **British Pipe Threads Taper Threads** Square Threads A N Port M S Threads Hose Fittings Position Gages

RING GAGES- THREAD

Metric 60°N.F., N.C., UNC, UNJ, UNJF, NEF & UNEF Acme Buttress Whitworth 55° Straight Pipe, NPSC, NPSF, NPSI, NPSM, NPSL Taper Pipe, NPT, NPTF, ANPT, BSP British Pipe Taper Square

VARIABLE GAGING - INTER-NAL & EXTERNAL Trirolls Internal Thread Comparator

SNAP GAGES

Plain Adjustable Built-up Fixed Solid Special Indicating Roll Thread to Mil-Std-8879A and Mil-Std-7742A, Amendment No. 1 Methods A and B.

AIR GAGE TOOLING

Air Ring Air Probe Related Masters

OIL FIELD GAGES

Sucker Rod Casing Tubing Line Pipe Rotary

PLUG GAGES -PLAIN CYLINDRICAL

Flat, hex, & Square Progressive Type Plain Taper (Master) Brown & Sharpe, Luer Gages, etc. Morse or any Special Taper to Print. Plain Cylindrical, Taperlock, Reversible, Trilock M S Master Disks Style 1,2 & 3 Paddle Type Depth M S Flush Flush Pin Functional A N Port **Thread Measuring Wires**

RING GAGES -PLAIN CYLINDRICAL

Plain, Go, Not Go, Master Setting Taper Progressive

SPECIAL TOOLING

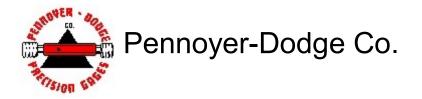
Hole Location Gages Drill Fixtures Milling Fixtures Mandrils Template Gages Spanner Gages Receiver Gages Fixture Gages Functional Gages Concentricity & Runout Gages Profile Gages Crimping Tool Gages Flush Pin Gages Paddle Gages Chamber Gages

SPECIAL SERVICES

Certification on all types of Gages listed, traceable to N.I.S.T. Lead Screws Thread Grinding to close tolerances. Jig Grinding Lap I.D. and O.D. Parts to close tolerances. Lapping of Plugs and Rings -Both Plain and Threads.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE 04/03/2023 Rev A $$ - 30

PENNOYER-DODGE CO.



Accurate Formula To Compute The Pitch And Major/Minor Diameters For Before Plate Thread Plugs And Thread Rings*

If no plating tolerance is given, then it is assumed that the maximum plating thickness will be nominal or minimum thickness given plus 50%. (see ASME B1.1-2003, pg. 64, 7.4.2; pg. 65, 7.5.2) The diameters of the gaging for external threads will be smaller while the diameters of the gaging for internal threads will be larger, than standard.

THREAD PLUGS

For the Go plug pitch diameter, add the MAX. amount of plate. For the Not Go pitch diameter, add the MIN. amount of plate. For the majors of work plugs, increase the major diameter on Go work plug by using half the MAX. amount of plate. On Not Go work plugs, increase the major diameter by using half the MIN. amount of plate.

Example

Based on .0002 to .0003 allowance per side (multiply by 4) .0002 X 4 = .0008 **MIN**. .0003 X 4 = .0012 **MAX**. 1/4-28 UNF 2B B/P <u>Basic GO P.D.</u> .2268 + .0012 **MAX**. = .2280 Go P.D. <u>Basic NOT GO P.D.</u> .2311 + .0008 **MIN**. = .2319 Not Go P.D. <u>Basic GO major</u> .2500 + (.0012 / 2) = .2506 B/P Go major. Basic NOT GO major .2466 + (.0008 / 2) = .2470 B/P Not Go major.

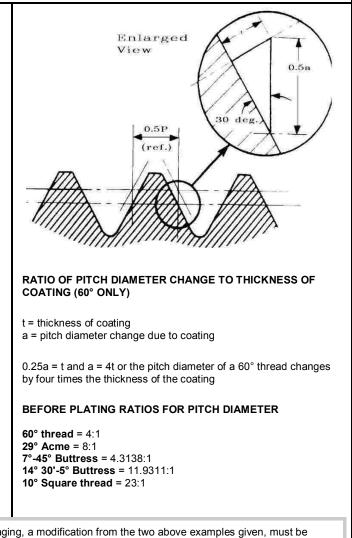
THREAD RINGS

For the Go ring, **subtract** the MAX. amount of plate. For the Not Go ring, **subtract** the MIN. amount of plate. For the minors of thread rings, **decrease** the minor diameter on the Go thread ring by using half the MAX. amount of plate. On Not Go thread rings, **decrease** the minor diameter by using half the MIN. amount of plate.

Example

Based on .0002 to .0003 allowance per side (multiply by 4) .0002 X 4 = .0008 MIN. .0003 X 4 = .0012 MAX. 1/4-28 UNF 2A B/P Basic GO P.D. .2258 - .0012 MAX. = .2246 Go P.D. Basic NOT GO P.D. .2225 - .0008 MIN. = .2217 Not Go P.D.

Basic GO minor .2103 - (.0012 / 2) = .2097 B/P Go minor. Basic NOT GO minor .2148 - (.0008 / 2) = .2144 B/P Not Go minor.



Anodic Coatings—When calculating dimensions for pre-anodize gaging, a modification from the two above examples given, must be made.

For example, when calculating the increase in dimensions for the pre-anodize work plug gages, the value of thickness amount of the anodize applied, must be, for gage calculations purposes, reduced by one half, i.e., if the minimum and maximum applied anodize thickness dimensions were, .0004 to .0006 per surface, the values used in the calculations, would be only one half of the application, or .0002 to .0003 per surface. The results, in this example, would then be the same values, as the example shown above for the thread plugs. For thread rings, the same procedure would be utilized, in reverse. Reference Data: MIL-A-8625F, page 16.

* In accordance with ANSI/ASME B1.1-2003 (Note: Currently this standard is in the final revision process)	
	PRICES SUBJECT TO CHANGE WITHOUT NOTICE 04/03/2023 Rev A $$ - 31

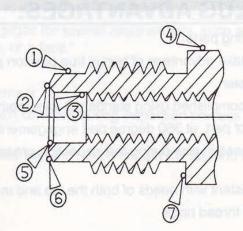
PENNOYER-DODGE CO. introduces "TWIST'ER GAGES"



MMC

RFC

LMC



Functional Location - P.D. Limit & Size "When you want it Right...and Right away"

PRICES SUBJECT TO CHANGE WITHOUT NOTICE 04/03/2023 Rev A - 32

SPC



Pennoyer-Dodge Co.

"<u>TWISTER OUT</u>"

YOUR CHOICE FOR FUNCTIONAL THREADED AXIS LOCATION, REGARDLESS OF FEATURE SIZE

"TWISTER OUT" RING PRINCIPLE:

The "TWISTER OUT" ring with it's P.D. (Functional Diameter) related ground O.D. and faces, works by two independent thread gage sections that, when twisted, grips the flanks of the product thread. This locks and locates the functional thread axis of the product thread. At this point a variety of inspection techniques are possible, such as true position, runout, and concentricity to the part functional P.D. (Functional Diameter) datum.

"TWISTER OUT" RING FEATURES:

- Reliable functional pitch diameter datum source for location of functional thread axis position.
- Accuracy to .0001
- No complicated moving parts.
- · Easily adapted for SPC.
- · Use of high quality tool steel (Chrome also available).
- Engineered and manufactured in the U.S.A.

"TWISTER OUT" RING ADVANTAGES:

Allows part manufacturer to accurately determine runout, perpendicularity, true position, and

 concentricity of part parameters to the P.D. (Functional Diameter) RFS EXAMPLE:

Ø.005 P.D. (Functional Diameter)

- Inspects functional thread plug gages for special requirements, such as: "Pitch diameter of gages must run within .0002 to centers, or a face."
- · Assures assemblability .
- Checks 360 degree part engagement.
- Major and minor diameters remain constant during inspection process as compared to alternate types of gaging.
- Portability and accuracy consistent with the needs of both the lab and manufacturing environment

Prices available upon application



Pennoyer-Dodge Co.

"<u>TWISTER IN</u>"

YOUR CHOICE FOR PRECISION THREAD LOCATION AND FUNCTIONAL SIZE

"TWISTER IN" PLUG PRINCIPLE:

The "TWISTER " plug works by movable thread gage segments that engage one flank angle, while the thread body engages the opposite thread flank angle of the product thread. The resultant "flank grip" establishes the functional size and/or functional thread axis of the part, depending on how the twister plug is fabricated.

"TWISTER IN" PLUG FEATURES:

- Reliable functional pitch diameter datum source for functional size determination and/or functional thread axis location.
- Accuracy to .0001
- · No complicated moving parts.
- Easily adapted for SPC.
- · Consistent readings.
- · Locks readings in place.
- Use of high quality tool steel (Chrome also available).
- Engineered and manufactured in the U.S.A.

"TWISTER IN" PLUG ADVANTAGES:

- Allows part manufacturer to take advantage of bonus
- true position part tolerancing 🛛 🕀 🛛 Ø.005 🕅 🛛 P.D. (Functional Diameter)
- <u>No need</u> for solid ring set master.
- Assures assemblability.
- Can measure functional size of part, at 360 degree part engagement.
- Major diameter does not increase in size during the inspection process, as compared to alternate types of gages.
- · Portability and accuracy consistent with the needs of both the lab and manufacturing environment
- Calibrate adjustable and solid thread rings.

Prices available upon application

STANDARD GAGING

Pennoyer-Dodge Company has one of the largest selections of standard and special gages in stock. In many instances they are available for immediate delivery.



All gages are certified in accordance to MIL-STD-45662A and are traceable to the N.I.S.T.



CUSTOM ENGINEERING AND SPECIAL TOOLING

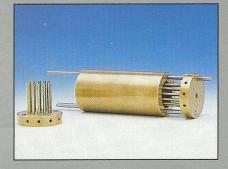
- Fabrication of custom gages to existing gage drawings.
- Design and fab capabilities from concept to completion per ANSI Y14.5.

• As a leader in the design and production of Functional Gages, we are familiar with the problems of the manufacturing industry. We invite you to request our services regardless of your R & D or engineering needs. We can design a new gage, or develop a less costly method to meet your present gaging needs.



OTHER SERVICES

- Parts analysis and "troubleshooting".
- Contract Jig Grinding with open machine time available.
- Custom Lapping.
- Special Thread Grinding.



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