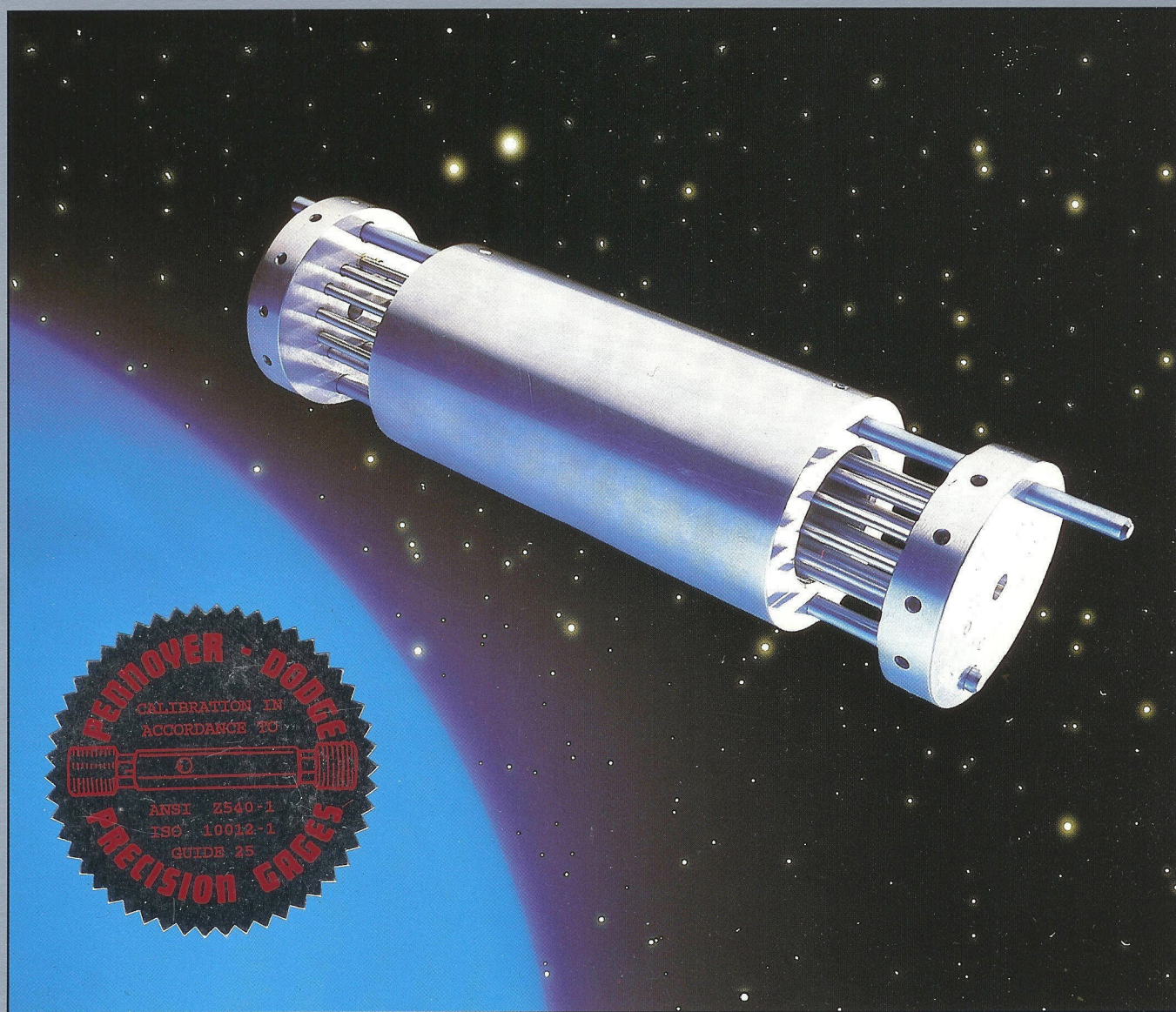


PENNOYER - DODGE
CO M P A N Y
PRECISION GAGES
PRECISION GAGES



GAGING AND TOOLING SPECIALIST
SINCE 1948

QUALITY

SALES

SERVICE



MESSAGE FROM THE PRESIDENT



Dear Customer,

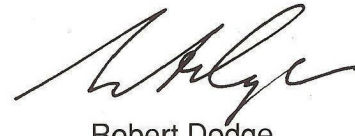
Welcome to **Penneyer-Dodge Company**! You are about to meet a family owned company that has been in the Precision Gage business since 1948. **Penneyer-Dodge Company** is a leader in the manufacturing of all types of precision thread and cylindrical gages, as well as the design and manufacturing of special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

The basic philosophy of **Penneyer-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. **Penneyer-Dodge Company** values the opportunity to continue serving you for all your gaging needs.


Hazel L. Dodge


Robert Dodge

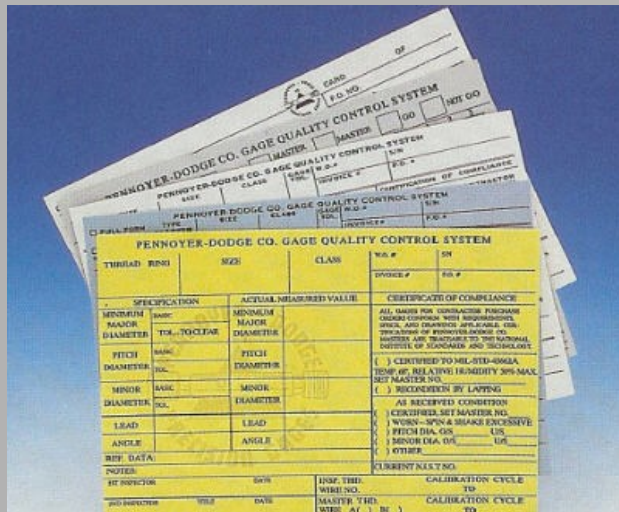
SALES AND SERVICE

When you buy from **Penneyer-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, **Penneyer-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.



QUALITY CONTROL

Penneyer-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 **Penneyer-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. **Penneyer-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.

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.

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 re-calibrated 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 Company

When you need it right and right away!

Accepted Methods of Payment
COD,

Net 30 days from date of invoice (upon credit approval),



Table of Contents

Expedite Service	4	NPT Taper Pipe Ring & Plug Gages	23
Taperlock Thread Gages	5 - 7	Cylindrical Taperlock Gages	24
Reversible Thread Plug Gages	8	Cylindrical Reversible Gages	25
S.T.I. Thread Plug Gages X-Tolerance	9	Cylindrical Trilock Gages	26
Standard Thread Ring Gages	10 - 11	Cylindrical Progressive Gages	27
Truncated Setting Plug Gages	12 - 14	Cylindrical Ring Gages	28
Progressive Setting Plug Gages	15 - 16	Standard Calibration/Certification Charges	29
Metric Thread Plug Gages	17	Special Gage Listing	30
Metric Reversible Plug Gages	18	Before Plate Formulas	31
Metric Thread Ring Gages	19	Twister Gages	32
Metric Truncated Setting Plug Gages	20	Twister Out	33
NPTF Taper Pipe Ring & Plug Gages	21	Twister In	34
ANPT Taper Pipe Ring & Plug Gages	22		

PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev C - 3 -



Pennoyer-Dodge Co.

Our
I Need It Now!

Expedite Service

- 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 **I NEED 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 3/24/2020 Rev. C



Penroyer-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

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.
6. Calibration stickers available @ \$5.00 per sticker (advise calibration cycle).
7. CHROME: Add 50% to each member.
8. "J" Series thread: Add \$10.00 per plug member.

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
#0-80 UNF	51.00	117.00	15.00	#000
#1-64 UNC	51.00	117.00	15.00	#000
# 1-72 UNF	51.00	117.00	15.00	# 000
# 2-56 UNC	48.00	111.00	15.00	# 000
# 2-64 UNF	48.00	111.00	15.00	# 000
# 3-48 UNC	45.00	105.00	15.00	# 000
# 3-56 UNF	45.00	105.00	15.00	# 000
# 4-40 UNC	45.00	105.00	15.00	# 00
# 4-48 UNF	45.00	105.00	15.00	# 00
# 5-40 UNC	45.00	105.00	15.00	# 00
# 5-44 UNF	45.00	105.00	15.00	# 00
# 6-32 UNC	40.00	95.00	15.00	# 00
# 6-40 UNF	40.00	95.00	15.00	# 00
# 8-32 UNC	40.00	95.00	15.00	# 0
# 8-36 UNF	40.00	85.00	15.00	# 0
# 10-24 UNC	40.00	95.00	15.00	# 0
# 10-32 UNF	40.00	95.00	15.00	# 0
# 12-24 UNC	40.00	95.00	15.00	# 0
# 12-28 UNF	40.00	95.00	15.00	# 0
# 12-32 UNEF	58.00	131.00	15.00	# 0
1/4-20 UNC	40.00	95.00	15.00	# 1
1/4-28 UNF	40.00	95.00	15.00	# 1
1/4-32 UNEF	58.00	131.00	15.00	# 1
5/16-18 UNC	40.00	95.00	15.00	# 1
5/16-24 UNF	40.00	95.00	15.00	# 1
5/16-32 UNEF	58.00	131.00	15.00	# 1
3/8-16 UNC	41.00	97.00	15.00	# 2
3/8-24 UNF	41.00	97.00	15.00	# 2
3/8-32 UNEF	66.00	147.00	15.00	# 2
7/16-14 UNC	41.00	97.00	15.00	# 2
7/16-20 UNF	41.00	97.00	15.00	# 2



PRICES SUBJECT TO CHANGE WITHOUT NOTICE 003/24/2020 Rev - 5 -



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

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.
6. Calibration stickers available @ \$5.00 per sticker (advise calibration cycle).
7. CHROME: Add 50% to each member.
8. "J" Series thread: Add \$10.00 per plug member.

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	64.00	143.00	15.00	# 2
1/2-13 UNC	40.00	95.00	15.00	# 2
1/2-20 UNF	40.00	95.00	15.00	# 2
1/2-28 UNEF	67.00	149.00	15.00	# 2
9/16-12 UNC	50.00	115.00	15.00	# 3
9/16-18 UNF	50.00	115.00	15.00	# 3
9/16-24 UNEF	75.00	165.00	15.00	# 3
5/8-11 UNC	50.00	115.00	15.00	# 3
5/8-18 UNF	50.00	115.00	15.00	# 3
5/8-24 UNEF	75.00	165.00	15.00	# 3
11/16-24 UNEF	75.00	165.00	15.00	# 3
3/4-10 UNC	54.00	123.00	15.00	# 3
3/4-16 UNF	54.00	123.00	15.00	# 3
3/4-20 UNEF	76.00	167.00	15.00	# 3
13/16-20 UNEF	85.00	185.00	15.00	# 3
7/8-9 UNC	56.00	127.00	15.00	# 4
7/8-14 UNF	56.00	127.00	15.00	# 4
7/8-20 UNEF	85.00	185.00	15.00	# 4
15/16-20 UNEF	86.00	187.00	15.00	# 4
1-8 UNC	64.00	143.00	15.00	# 4
1-12 UNF	64.00	143.00	15.00	# 4
1-14 UNS	65.00	145.00	15.00	# 4
1-20 UNEF	97.00	209.00	15.00	# 4
1 1/16-18 UNEF	98.00	211.00	15.00	# 4
1 1/8-7 UNC	79.00	173.00	15.00	# 4
1 1/8-12 UNF	79.00	173.00	15.00	# 4
1 1/8-18 UNEF	98.00	211.00	15.00	# 4
1 3/16-18 UNEF	104.00	223.00	15.00	# 5
1 1/4-7 UNC	85.00	185.00	15.00	# 5
1 1/4-12 UNF	84.00	183.00	15.00	# 5
1 1/4-18 UNEF	107.00	229.00	15.00	# 5



PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev C - 6 -



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

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.
6. Calibration stickers available @ \$5.00 per sticker (advise calibration cycle).
7. CHROME: Add 50% to each member.
8. "J" Series thread: Add \$10.00 per plug member.

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	110.00	235.00	15.00	# 5
1 3/8-6 UNC	95.00	205.00	15.00	# 5
1 3/8-12 UNF	95.00	205.00	15.00	# 5
1 3/8-18 UNEF	120.00	255.00	15.00	# 5
1 7/16-18 UNEF	120.00	255.00	15.00	# 5
1 1/2-6 UNC	107.00	229.00	15.00	# 5
1 1/2-12 UNF	107.00	229.00	15.00	# 5
1 1/2-18 UNEF	130.00	275.00	15.00	# 5





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 @ \$5.00 per sticker (advise calibration cycle).
 8. CHROME: Add 50% to each member.
 9. If Trilock style desired, price upon application.

CLASS X RIGHT HAND REVERSIBLE THREAD PLUGGAGES

Nominal Size	Go or Not Go 2B or 3B Members	Complete Double End Gage w/Handle	Handle Only	Handle Size
# 0-80 UNF	74.00	165.00	17.00	# 1W
# 1-64 UNC	74.00	165.00	17.00	# 1W
# 1-72 UNF	73.00	163.00	17.00	# 1W
# 2-56 UNC	69.00	155.00	17.00	# 2W
# 2-64 UNF	69.00	155.00	17.00	# 2W
# 3-48 UNC	65.00	147.00	17.00	# 2W
# 3-56 UNF	65.00	147.00	17.00	# 2W
# 4-40 UNC	65.00	147.00	17.00	# 2W
# 4-48 UNF	65.00	147.00	17.00	# 2W
# 5-40 UNC	65.00	147.00	17.00	# 2W
# 5-44 UNF	65.00	147.00	17.00	# 2W
# 6-32 UNC	60.00	137.00	17.00	# 2W
# 6-40 UNF	60.00	137.00	17.00	# 2W
# 8-32 UNC	60.00	137.00	17.00	# 2W
# 8-36 UNF	60.00	137.00	17.00	# 2W
# 10-24 UNC	60.00	137.00	17.00	# 3W
# 10-32 UNF	60.00	137.00	17.00	# 3W
# 12-24 UNC	60.00	137.00	17.00	# 3W
# 12-28 UNF	60.00	137.00	17.00	# 3W
1/4-20 UNC	60.00	137.00	17.00	# 3W
1/4-28 UNF	60.00	137.00	17.00	# 3W
5/16-18 UNC	60.00	140.00	20.00	# 4W
5/16-24 UNF	60.00	140.00	20.00	# 4W
3/8-16 UNC	60.00	140.00	20.00	# 4W
3/8-24 UNF	60.00	140.00	20.00	# 4W
7/16-14 UNC	60.00	140.00	20.00	# 5W
7/16-20 UNF	60.00	140.00	20.00	# 5W
1/2-13 UNC	60.00	140.00	20.00	# 5W
1/2-20 UNF	60.00	140.00	20.00	# 5W
9/16-12 UNC	70.00	165.00	25.00	# 6W
9/16-18 UNF	70.00	165.00	25.00	# 6W
5/8-11 UNC	70.00	165.00	25.00	# 6W
5/8-18 UNF	70.00	165.00	25.00	# 6W
3/4-10 UNC	74.00	173.00	25.00	# 7W
3/4-16 UNF	74.00	173.00	25.00	# 7W



PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev C - 8 -



Penroyer-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 @ \$5.00 per sticker (advise calibration cycle).
8. "W" tolerance (Inspection Grade) add 30%. Must purchase long form calibration reports.
9. CHROME: Add 50% to each member.
10. "J" series thread add \$10.00 per plug member.

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	68.00	151.00	15.00	# 00
# 4-40 UNC	67.00	149.00	15.00	# 00
# 4-48 UNF	59.00	133.00	15.00	# 00
# 6-32 UNC	57.00	129.00	15.00	# 0
# 6-40 UNF	59.00	133.00	15.00	# 0
# 8-32 UNC	59.00	133.00	15.00	# 0
# 10-24 UNC	59.00	133.00	15.00	# 0
# 10-32 UNF	59.00	133.00	15.00	# 0
1/4-20 UNC	59.00	133.00	15.00	# 1
1/4-28 UNF	59.00	133.00	15.00	# 1
5/16-18 UNC	59.00	133.00	15.00	# 2
5/16-24 UNF	59.00	133.00	15.00	# 1
3/8-16 UNC	59.00	133.00	15.00	# 2
3/8-24 UNF	59.00	133.00	15.00	# 2
7/16-14 UNC	65.00	145.00	15.00	# 3
7/16-20 UNF	59.00	133.00	15.00	# 2
1/2-13 UNC	65.00	145.00	15.00	# 3
1/2-20 UNF	60.00	135.00	15.00	# 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 @ \$5.00 per sticker (advise calibration cycle).
7. CHROME: Add 50% for sizes #10 and up, per ring.
8. For "J" series (MIL-S-8879 and SAE-AS-71051), add \$70.00 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	155.00	310.00	20.00	1T
# 1-64 UNC	145.00	290.00	20.00	1T
# 1-72 UNF	145.00	290.00	20.00	1T
# 2-56 UNC	132.00	264.00	20.00	1T
# 2-64 UNF	128.00	256.00	20.00	1T
# 3-48 UNC	128.00	256.00	20.00	1T
# 3-56 UNF	132.00	264.00	20.00	1T
# 4-40 UNC	123.00	246.00	20.00	1T
# 4-48 UNF	123.00	246.00	20.00	1T
# 5-40 UNC	123.00	246.00	20.00	1T
# 5-44 UNF	123.00	246.00	20.00	1T
# 6-32 UNC	115.00	230.00	20.00	1T
# 6-40 UNF	115.00	230.00	20.00	1T
# 8-32 UNC	115.00	230.00	20.00	1T
# 8-36 UNF	115.00	230.00	20.00	1T
# 10-24 UNC	115.00	230.00	20.00	1T
# 10-32 UNF	115.00	230.00	20.00	1T
# 12-24 UNC	115.00	230.00	20.00	1T
# 12-28 UNF	115.00	230.00	20.00	1T
# 12-32 UNEF	130.00	260.00	20.00	1T
1/4-20 UNC	115.00	230.00	20.00	2T
1/4-28 UNF	115.00	230.00	20.00	2T
1/4-32 UNEF	130.00	260.00	20.00	2T
5/16-18 UNC	115.00	230.00	20.00	2T
5/16-24 UNF	115.00	230.00	20.00	2T
5/16-32 UNEF	130.00	260.00	20.00	2T
3/8-16 UNC	115.00	230.00	20.00	3T
3/8-24 UNF	115.00	230.00	20.00	3T
3/8-32 UNEF	133.00	266.00	20.00	3T
7/16-14 UNC	115.00	230.00	20.00	3T
7/16-20 UNF	115.00	230.00	20.00	3T
7/16-28 UNEF	130.00	260.00	20.00	3T
1/2-13 UNC	117.00	234.00	20.00	3T
1/2-20 UNF	117.00	234.00	20.00	3T
1/2-28 UNEF	137.00	274.00	20.00	3T
9/16-12 UNC	130.00	260.00	25.00	4T
9/16-18 UNF	130.00	260.00	25.00	4T



PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev. C - 10



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 @ \$5.00 per sticker (advise calibration cycle).
7. CHROME: Add 50% for sizes #10 and up, per ring.
8. For "J" series (MIL-S-8879 and SAE-AS-71051), add \$70.00 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
9/16-24 UNEF	149.00	298.00	25.00	4T
5/8-11 UNC	130.00	260.00	25.00	4T
5/8-18 UNF	130.00	260.00	25.00	4T
5/8-24 UNEF	160.00	320.00	25.00	4T
11/16-24 UNEF	160.00	320.00	25.00	4T
3/4-10 UNC	157.00	314.00	25.00	4T
3/4-16 UNF	157.00	314.00	25.00	4T
3/4-20 UNEF	178.00	356.00	25.00	4T
13/16-20 UNEF	178.00	356.00	25.00	4T
7/8-9 UNC	175.00	350.00	30.00	5T
7/8-14 UNF	175.00	350.00	30.00	5T
7/8-20 UNEF	193.00	386.00	30.00	5T
15/16-20 UNEF	193.00	386.00	30.00	5T
1-8 UNC	205.00	410.00	30.00	5T
1-12 UNF	205.00	410.00	30.00	5T
1-14 UNS	214.00	428.00	30.00	5T
1-20 UNEF	228.00	456.00	30.00	5T
1 1/16-18 UNEF	250.00	500.00	30.00	5T
1 1/8-7 UNC	250.00	500.00	30.00	5T
1 1/8-12 UNF	244.00	488.00	30.00	5T
1 1/8-18 UNEF	260.00	520.00	30.00	5T
1 3/16-18 UNEF	275.00	550.00	35.00	6T
1 1/4-7 UNC	270.00	540.00	35.00	6T
1 1/4-12 UNF	270.00	540.00	35.00	6T
1 1/4-18 UNEF	275.00	550.00	35.00	6T
1 5/16-18 UNEF	275.00	550.00	35.00	6T
1 3/8-6 UNC	270.00	540.00	35.00	6T
1 3/8-12 UNF	270.00	540.00	35.00	6T
1 3/8-18 UNEF	288.00	576.00	35.00	6T
1 7/16-18 UNEF	288.00	576.00	35.00	6T
1 1/2-6 UNC	285.00	570.00	35.00	6T
1 1/2-12 UNF	285.00	570.00	35.00	6T
1 1/2-18 UNEF	305.00	610.00	35.00	6T





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

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 @ \$5.00 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.

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

Nominal Size	Go or Not Go 2A or 3A Members	Complete Double End Gage w/Handle	Handle Only	Handle Size
# 0-80 UNF	110.00	235.00	15.00	# 000
# 1-64 UNC	110.00	235.00	15.00	# 000
# 1-72 UNF	110.00	235.00	15.00	# 000
# 2-56 UNC	110.00	235.00	15.00	# 000
# 2-64 UNF	110.00	235.00	15.00	# 000
# 3-48 UNC	105.00	225.00	15.00	# 000
# 3-56 UNF	105.00	225.00	15.00	# 000
# 4-40 UNC	98.00	211.00	15.00	# 00
# 4-48 UNF	98.00	211.00	15.00	# 00
# 5-40 UNC	95.00	205.00	15.00	# 00
# 5-44 UNF	95.00	205.00	15.00	# 00
# 6-32 UNC	95.00	205.00	15.00	# 00
# 6-40 UNF	95.00	205.00	15.00	# 00
# 8-32 UNC	95.00	205.00	15.00	# 0
# 8-36 UNF	95.00	205.00	15.00	# 0
# 10-24 UNC	95.00	205.00	15.00	# 0
# 10-32 UNF	95.00	205.00	15.00	# 0
# 12-24 UNC	95.00	205.00	15.00	# 0
# 12-28 UNF	95.00	205.00	15.00	# 0
# 12-32 UNEF	112.00	239.00	15.00	# 0
1/4-20 UNC	90.00	195.00	15.00	# 1
1/4-28 UNF	90.00	195.00	15.00	# 1
1/4-32 UNEF	112.00	239.00	15.00	# 1
5/16-18 UNC	90.00	195.00	15.00	# 1
5/16-24 UNF	90.00	195.00	15.00	# 1
5/16-32 UNEF	112.00	239.00	15.00	# 1
3/8-16 UNC	91.00	197.00	15.00	# 2
3/8-24 UNF	91.00	197.00	15.00	# 2
3/8-32 UNEF	125.00	265.00	15.00	# 2
7/16-14 UNC	91.00	197.00	15.00	# 2



PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev C - 12



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

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 @ \$5.00 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.

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

Nominal Size	Go or Not Go 2A or 3A Members	Complete Double End Gage w/Handle	Handle Only	Handle Size
7/16-20 UNF	91.00	197.00	15.00	# 2
7/16-28 UNEF	125.00	265.00	15.00	# 2
1/2-13 UNC	94.00	203.00	15.00	# 2
1/2-20 UNF	94.00	203.00	15.00	# 2
1/2-28 UNEF	135.00	285.00	15.00	# 2
9/16-12 UNC	104.00	223.00	15.00	# 3
9/16-18 UNF	103.00	221.00	15.00	# 3
9/16-24 UNEF	145.00	305.00	15.00	# 3
5/8-11 UNC	110.00	235.00	15.00	# 3
5/8-18 UNF	110.00	235.00	15.00	# 3
5/8-24 UNEF	155.00	325.00	15.00	# 3
11/16-24 UNEF	155.00	325.00	15.00	# 3
3/4-10 UNC	125.00	265.00	15.00	# 3
3/4-16 UNF	125.00	265.00	15.00	# 3
3/4-20 UNEF	155.00	325.00	15.00	# 3
13/16-20 UNEF	160.00	335.00	15.00	# 3
7/8-9 UNC	153.00	321.00	15.00	# 4
7/8-14 UNF	153.00	321.00	15.00	# 4
7/8-20 UNEF	168.00	351.00	15.00	# 4
15/16-20 UNEF	168.00	351.00	15.00	# 4
1-8 UNC	163.00	341.00	15.00	# 4
1-12 UNF	163.00	341.00	15.00	# 4
1-14 UNS	163.00	341.00	15.00	# 4
1-20 UNEF	179.00	373.00	15.00	# 4
1 1/16-18 UNEF	179.00	373.00	15.00	# 4
1 1/8-7 UNC	179.00	373.00	15.00	# 4
1 1/8-12 UNF	179.00	373.00	15.00	# 4
1 1/8-18 UNEF	192.00	399.00	15.00	# 4
1 3/16-18 UNEF	192.00	399.00	15.00	# 5
1 1/4-7 UNC	198.00	411.00	15.00	# 5



PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev C - 13



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

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 @ \$5.00 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.

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

Nominal Size	Go or Not Go 2A or 3A Members	Complete Double End Gage w/Handle	Handle Only	Handle Size
1 1/4-12 UNF	198.00	411.00	15.00	# 5
1 1/4-18 UNEF	219.00	453.00	15.00	# 5
1 5/16-18 UNEF	219.00	453.00	15.00	# 5
1 3/8-6 UNC	219.00	453.00	15.00	# 5
1 3/8-12 UNF	219.00	453.00	15.00	# 5
1 3/8-18 UNEF	240.00	495.00	15.00	# 5
1 7/16-18 UNEF	240.00	495.00	15.00	# 5
1 1/2-6 UNC	240.00	495.00	15.00	# 5
1 1/2-12 UNF	240.00	495.00	15.00	# 5
1 1/2-18 UNEF	245.00	505.00	15.00	# 5





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.

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 @ \$5.00 per sticker (advise calibration cycle).

8. "J" series thread add \$10.00 per plug member.

CLASS X P.D. RIGHT HAND PROGRESSIVE SETTING
PLUG GAGES W-TOL ON LEAD & ANGLE

Nominal Size	Go or Not Go 2A or 3A Members	Complete Double End Gage w/Handle	Handle Only	Handle Size
# 0-80 UNF	295.00	605.00	15.00	# 000
# 1-64 UNC	295.00	605.00	15.00	# 000
# 1-72 UNF	295.00	605.00	15.00	# 000
# 2-56 UNC	295.00	605.00	15.00	# 000
# 2-64 UNF	295.00	605.00	15.00	# 000
# 3-48 UNC	271.00	557.00	15.00	# 000
# 3-56 UNF	271.00	557.00	15.00	# 000
# 4-40 UNC	271.00	557.00	15.00	# 00
# 4-48 UNF	271.00	557.00	15.00	# 00
# 5-40 UNC	246.00	507.00	15.00	# 00
# 5-44 UNF	246.00	507.00	15.00	# 00
# 6-32 UNC	246.00	507.00	15.00	# 00
# 6-40 UNF	246.00	507.00	15.00	# 00
# 8-32 UNC	246.00	507.00	15.00	# 0
# 8-36 UNF	246.00	507.00	15.00	# 0
# 10-24 UNC	246.00	507.00	15.00	# 0
# 10-32 UNF	246.00	507.00	15.00	# 0
# 12-24 UNC	246.00	507.00	15.00	# 0
# 12-28 UNF	246.00	507.00	15.00	# 0
# 12-32 UNEF	308.00	631.00	15.00	# 0
1/4-20 UNC	207.00	429.00	15.00	# 1
1/4-28 UNF	207.00	429.00	15.00	# 1
1/4-32 UNEF	279.00	573.00	15.00	# 1
5/16-18 UNC	207.00	429.00	15.00	# 1
5/16-24 UNF	207.00	429.00	15.00	# 1
5/16-32 UNEF	306.00	627.00	15.00	# 1
3/8-16 UNC	220.00	455.00	15.00	# 2
3/8-24 UNF	220.00	455.00	15.00	# 2
3/8-32 UNEF	334.00	683.00	15.00	# 2
7/16-14 UNC	220.00	455.00	15.00	# 2
7/16-20 UNF	220.00	455.00	15.00	# 2
7/16-28 UNEF	334.00	683.00	15.00	# 2
1/2-13 UNC	240.00	495.00	15.00	# 2
1/2-20 UNF	240.00	495.00	15.00	# 2
1/2-28 UNEF	348.00	711.00	15.00	# 2



* 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.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev C - 15



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.

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 @ \$5.00 per sticker (advise calibration cycle).

8. "J" series thread add \$10.00 per plug member.

CLASS X P.D. RIGHT HAND PROGRESSIVE SETTING
PLUG GAGES W-TOL ON LEAD & ANGLE

Nominal Size	Go or Not Go 2A or 3A Members	Complete Double End Gage w/Handle	Handle Only	Handle Size
9/16-12 UNC	266.00	547.00	15.00	# 3
9/16-18 UNF	262.00	539.00	15.00	# 3
9/16-24 UNEF	352.00	719.00	15.00	# 3
5/8-11 UNC	277.00	569.00	15.00	# 3
5/8-18 UNF	262.00	539.00	15.00	# 3
5/8-24 UNEF	359.00	733.00	15.00	# 3
11/16-24 UNEF	363.00	741.00	15.00	# 3
3/4-10 UNC	310.00	635.00	15.00	# 3
3/4-16 UNF	301.00	617.00	15.00	# 3
3/4-20 UNEF	367.00	749.00	15.00	# 3
13/16-20 UNEF	411.00	837.00	15.00	# 3
7/8-9 UNC	332.00	679.00	15.00	# 4
7/8-14 UNF	315.00	645.00	15.00	# 4
7/8-20 UNEF	425.00	865.00	15.00	# 4
15/16-20 UNEF	440.00	895.00	15.00	# 4
1-8 UNC	411.00	837.00	15.00	# 4
1-12 UNF	392.00	799.00	15.00	# 4
1-14 UNS	392.00	799.00	15.00	# 4
1-20 UNEF	464.00	943.00	15.00	# 4
1 1/16-18 UNEF	486.00	987.00	15.00	# 4
1 1/8-7 UNC	469.00	953.00	15.00	# 4
1 1/8-12 UNF	442.00	899.00	15.00	# 4
1 1/8-18 UNEF	486.00	987.00	15.00	# 4
1 3/16-18 UNEF	515.00	1045.00	15.00	# 5
1 1/4-7 UNC	515.00	1045.00	15.00	# 5
1 1/4-12 UNF	495.00	1005.00	15.00	# 5
1 1/4-18 UNEF	515.00	1045.00	15.00	# 5
1 5/16-18 UNEF	559.00	1133.00	15.00	# 5
1 3/8-6 UNC	592.00	1199.00	15.00	# 5
1 3/8-12 UNF	552.00	1119.00	15.00	# 5
1 3/8-18 UNEF	568.00	1151.00	15.00	# 5
1 7/16-18 UNEF	614.00	1243.00	15.00	# 5
1 1/2-6 UNC	563.00	1141.00	15.00	# 5
1 1/2-12 UNF	563.00	1141.00	15.00	# 5
1 1/2-18 UNEF	616.00	1247.00	15.00	# 5



* 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.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev C - 16



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.
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 @ \$5.00 per sticker (advise calibration cycle).

8. CHROME: Add 50% to each member.

9. For "MJ Series", Add \$10.00 per plug member.

CLASS X RIGHT HAND METRIC THREAD PLUG GAGES

Nominal Size	Go or Not Go 6H Members	Complete Double End Gage w/Handle	Handle Only	Handle Size
M1.6 x 0.35	60.00	135.00	15.00	# 000
M2.0 x 0.40	60.00	135.00	15.00	# 000
M2.5 x 0.45	60.00	135.00	15.00	# 000
M3.0 x 0.50	60.00	135.00	15.00	# 00
M3.5 x 0.60	53.00	121.00	15.00	# 00
M4.0 x 0.70	53.00	121.00	15.00	# 0
M5.0 x 0.80	53.00	121.00	15.00	# 0
M6.0 x 1.00	46.00	107.00	15.00	# 0
M8.0 x 1.25	46.00	107.00	15.00	# 1
M10 x 1.00	49.00	113.00	15.00	# 2
M10 x 1.25	49.00	113.00	15.00	# 2
M10 x 1.50	49.00	113.00	15.00	# 2
M12 x 1.25	50.00	115.00	15.00	# 2
M12 x 1.50	50.00	115.00	15.00	# 2
M12 x 1.75	50.00	115.00	15.00	# 2
M14 x 1.50	55.00	125.00	15.00	# 3
M14 x 2.00	55.00	125.00	15.00	# 3
M16 x 1.50	56.00	127.00	15.00	# 3
M16 x 2.00	56.00	127.00	15.00	# 3
M18 x 1.50	60.00	135.00	15.00	# 3
M18 x 2.50	60.00	135.00	15.00	# 3
M20 x 1.00	74.00	163.00	15.00	# 3
M20 x 1.50	69.00	153.00	15.00	# 3
M20 x 2.50	69.00	153.00	15.00	# 3
M22 x 1.50	69.00	153.00	15.00	# 4





Penroyer-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.

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 @ \$5.00 per sticker (advise calibration cycle).
8. CHROME: Add 50% to each member.

CLASS X RIGHT HAND
METRIC REVERSIBLE THREAD PLUG GAGES

Nominal Size	Go or Not Go 6H	Complete Double End Gage	Handle Only	Handle Size
M1.6 x 0.35	88.00	193.00	17.00	# 1W
M2.0 x 0.40	88.00	193.00	17.00	# 2W
M2.5 x 0.45	88.00	193.00	17.00	# 2W
M3.0 x 0.50	75.00	167.00	17.00	# 2W
M3.5 x 0.60	72.00	161.00	17.00	# 2W
M4.0 x 0.70	72.00	161.00	17.00	# 2W
M5.0 x 0.80	72.00	161.00	17.00	# 3W
M6.0 x 1.00	70.00	157.00	17.00	# 3W
M8.0 x 1.25	66.00	152.00	20.00	# 4W
M10 x 1.00	70.00	160.00	20.00	# 5W
M10 x 1.25	66.00	152.00	20.00	# 5W
M10 x 1.50	66.00	152.00	20.00	# 5W
M12 x 1.25	69.00	158.00	20.00	# 5W
M12 x 1.50	69.00	158.00	20.00	# 5W
M12 x 1.75	69.00	158.00	20.00	# 5W

CYLINDRICAL REVERSIBLE GAGES





Pennoyer-Dodge Co. Metric Thread Ring 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 set of rings.

4. Special marking may be added for an additional charge(\$20.00 min).
5. Long Form Calibration Reports add \$20.00 per member.
6. Calibration stickers available @ \$5.00 per sticker (advise calibration cycle).
7. CHROME: Add 50% for size 5.0mm and up, per ring.
8. For "MJ Series", add \$70.00 per GO ring.

CLASS X RIGHT HAND
METRIC THREAD RING GAGES

Nominal Size	Go or Not Go 6g Members	Go and Not Go 6g Pair of Rings	Ring Holder	Ring Holder Size
M1.6 x 0.35	170.00	340.00	20.00	# 1T
M2.0 x 0.40	155.00	310.00	20.00	# 1T
M2.5 x 0.45	155.00	310.00	20.00	# 1T
M3.0 x 0.50	135.00	270.00	20.00	# 1T
M3.5 x 0.60	135.00	270.00	20.00	# 1T
M4.0 x 0.70	125.00	250.00	20.00	# 1T
M5.0 x 0.80	125.00	250.00	20.00	# 1T
M6.0 x 1.00	120.00	240.00	20.00	# 1T
M8.0 x 1.25	120.00	240.00	20.00	# 2T
M10 x 1.00	125.00	250.00	20.00	# 3T
M10 x 1.25	125.00	250.00	20.00	# 3T
M10 x 1.50	125.00	250.00	20.00	# 3T
M12 x 1.25	125.00	250.00	20.00	# 3T
M12 x 1.50	133.00	266.00	20.00	# 3T
M12 x 1.75	133.00	266.00	20.00	# 3T
M14 x 1.50	133.00	266.00	25.00	# 4T
M14 x 2.00	145.00	290.00	25.00	# 4T
M16 x 1.50	145.00	290.00	25.00	# 4T
M16 x 2.00	145.00	290.00	25.00	# 4T
M18 x 1.50	189.00	378.00	25.00	# 4T
M18 x 2.50	194.00	388.00	25.00	# 4T
M20 x 1.00	240.00	480.00	25.00	# 4T
M20 x 1.50	235.00	470.00	25.00	# 4T
M20 x 2.50	235.00	470.00	25.00	# 4T
M22 x 1.50	245.00	490.00	30.00	# 5T





Penroyer-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

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 @ \$5.00 per sticker (advise calibration cycle).
8. W-tolerance P.D.: add 30%.
9. Full Form set plugs available upon request.
10. For "MJ Series", add \$10.00

CLASS X RIGHT HAND
METRIC SETTING PLUG GAGES
W-TOL ON LEAD & ANGLE

Nominal Size	Go or Not Go 6g Members	Complete Double End Gage w/Handle	Handle Only	Handle Size
M1.6 x 0.35	122.00	259.00	15.00	# 000
M2.0 x 0.40	118.00	251.00	15.00	# 000
M2.5 x 0.45	118.00	251.00	15.00	# 000
M3.0 x 0.50	115.00	245.00	15.00	# 00
M3.5 x 0.60	115.00	245.00	15.00	# 00
M4.0 x 0.70	110.00	235.00	15.00	# 0
M5.0 x 0.80	110.00	235.00	15.00	# 0
M6.0 x 1.00	105.00	235.00	15.00	# 0
M8.0 x 1.25	105.00	235.00	15.00	# 1
M10 x 1.00	105.00	235.00	15.00	# 2
M10 x 1.25	109.00	233.00	15.00	# 2
M10 x 1.50	109.00	233.00	15.00	# 2
M12 x 1.25	109.00	233.00	15.00	# 2
M12 x 1.50	109.00	233.00	15.00	# 2
M12 x 1.75	109.00	233.00	15.00	# 2
M14 x 1.50	125.00	265.00	15.00	# 3
M14 x 2.00	125.00	265.00	15.00	# 3
M16 x 1.50	125.00	265.00	15.00	# 3
M16 x 2.00	125.00	265.00	15.00	# 3
M18 x 1.50	135.00	285.00	15.00	# 3
M18 x 2.50	140.00	295.00	15.00	# 3
M20 x 1.00	155.00	325.00	15.00	# 3
M20 x 1.50	140.00	295.00	15.00	# 3
M20 x 2.50	140.00	295.00	15.00	# 3
M22 x 1.50	175.00	365.00	15.00	# 4





Pennoyer-Dodge Co.

NPTF 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 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.)
5. 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 @ \$5.00 per sticker (advise calibration cycle).

NPTF TAPER PIPE THREAD GAGES

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	315.00	115.00	133.00	190.00	15.00	# 1
1/8-27	245.00	321.00	315.00	90.00	100.00	185.00	15.00	# 2
1/4-18	240.00	330.00	315.00	90.00	105.00	188.00	15.00	# 3
3/8-18	250.00	330.00	315.00	107.00	120.00	195.00	15.00	# 3
1/2-14	265.00	345.00	315.00	120.00	135.00	198.00	15.00	# 4
3/4-14	290.00	367.00	350.00	135.00	150.00	210.00	15.00	# 4
1" - 11.5	315.00	409.00	391.00	150.00	163.00	230.00	15.00	# 5
1 1/4 - 11.5	373.00	460.00	440.00	165.00	177.00	242.00	15.00	# 5
1 1/2 - 11.5	391.00	490.00	475.00	190.00	195.00	255.00	15.00	# 5
2" - 11.5	480.00	573.00	536.00	230.00	238.00	325.00	15.00	# 5
2 1/2 - 8	545.00	683.00	599.00	332.00	350.00	490.00	26.00	# 6
3"-8	597.00	806.00	753.00	385.00	410.00	550.00	26.00	# 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
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.)
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 @ \$5.00 per sticker (advise calibration cycle).

ANPT TAPER PIPE THREAD GAGES

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	316.00	145.00	175.00	190.00	15.00	# 1
1/8-27	245.00	326.00	316.00	140.00	155.00	185.00	15.00	# 2
1/4-18	240.00	330.00	316.00	140.00	155.00	188.00	15.00	# 3
3/8-18	250.00	330.00	316.00	142.00	155.00	195.00	15.00	# 3
1/2-14	265.00	345.00	316.00	145.00	165.00	198.00	15.00	# 4
3/4-14	290.00	387.00	351.00	156.00	175.00	205.00	15.00	# 4
1 - 11.5	315.00	419.00	391.00	170.00	190.00	230.00	15.00	# 5
1 1/4 - 11.5	373.00	468.00	440.00	202.00	205.00	242.00	15.00	# 5
1 1/2 - 11.5	391.00	492.00	475.00	208.00	225.00	248.00	15.00	# 5
2" - 11.5	480.00	586.00	536.00	243.00	261.00	325.00	15.00	# 5
2 1/2 - 8	545.00	697.00	599.00	375.00	363.00	490.00	26.00	# 6
3" - 8	669.00	823.00	753.00	444.00	444.00	550.00	26.00	# 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.

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.

4. Special marking for an additional charge, (\$20.00 min.)
5. 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 @ \$5.00 per sticker (advise calibration cycle).

NPT TAPER PIPE THREAD GAGES

Nominal Size	L-1 Ring Gage	L-1 Plug Gage	Handle Only	Handle Size
1/16-27	275.00	93.00	15.00	# 1
1/8-27	225.00	73.00	15.00	# 2
1/4-18	235.00	75.00	15.00	# 3
3/8-18	245.00	80.00	15.00	# 3
1/2-14	265.00	88.00	15.00	# 4
3/4-14	285.00	101.00	15.00	# 4
1" - 11.5	310.00	115.00	15.00	# 5
1 1/4 - 11.5	373.00	128.00	15.00	# 5
1 1/2 - 11.5	391.00	142.00	15.00	# 5
2" - 11.5	480.00	173.00	15.00	# 5
2 1/2 - 8	545.00	210.00	26.00	# 6
3" - 8	597.00	240.00	26.00	# 6
3 1/2 - 8	821.00	375.00	30.00	# 7
4" - 8	1007.00	421.00	30.00	# 7
5" - 8	1176.00	580.00	30.00	# 7
6" - 8	1380.00	690.00	30.00	#7



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.
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 must be purchased on all classes: add \$20.00 per member.
7. Calibration stickers available @ \$5.00 per sticker (advise calibration cycle).
8. CHROME: Add 50% to each member

CYLINDRICAL TAPERLOCK GAGES

Nominal Size Above To & Incl	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 Members	Go & Not Go D.E. Class Y & Z W/Handle	Handle Only
0.059 (1.499mm) 0.105 (2.667mm)	75.00	74.00	164.00	60.00	58.00	133.00	60.00	58.00	133.00	15.00
0.105 (2.667mm) 0.150 (3.810mm)	67.00	66.00	148.00	57.00	55.00	127.00	57.00	55.00	127.00	15.00
0.150 (3.810mm) 0.230 (5.842mm)	67.00	66.00	148.00	57.00	55.00	127.00	57.00	55.00	127.00	15.00
0.230 (5.842mm) 0.510 (12.954mm)	67.00	66.00	148.00	58.00	56.00	129.00	58.00	56.00	129.00	15.00
0.510 (12.954mm) 0.825 (20.955mm)	74.00	73.00	162.00	63.00	60.00	138.00	63.00	60.00	138.00	15.00
0.825 (20.955mm) 1.135 (28.829mm)	77.00	75.00	162.00	65.00	63.00	143.00	65.00	63.00	143.00	15.00
1.135 (28.829mm) 1.510 (38.354mm)	79.00	78.00	172.00	67.00	64.00	146.00	67.00	64.00	146.00	15.00



PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev C - 24



Pennoyer-Dodge Co. Cylindrical Reversible 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. 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.
5. Special marking may be added for an additional charge. (\$20.00 min).
6. Long Form calibration reports must be purchased on all classes: add \$20.00 per member.
7. Calibration stickers available @ \$5.00 per sticker (advise calibration cycle).
8. All pin style above 1.010, price upon application.
9. CHROME: Add 50% to each member.
Sizes < .080, price upon application.
10. XXX gages price upon application, on sizes .125 and larger.
11. 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 REVERSIBLE GAGES

Nominal Size		Class XX Members	Class XX D.E.	Class X & Y Members	Class X & Y D.E.	Class Z Members	Class Z D.E.	Handle Only
Above	To & Incl							
.035 (0.889mm)	.075 (1.905mm)	88.00	193.00	59.00	135.00	49.00	115.00	17.00
.075 (1.905mm)	.100 (2.540mm)	88.00	193.00	59.00	135.00	49.00	115.00	17.00
.100 (2.540mm)	.180 (4.572mm)	79.00	175.00	52.00	121.00	42.00	101.00	17.00
.180 (4.572mm)	.510 (12.954mm)	79.00	178.00	52.00	124.00	42.00	104.00	20.00
.510 (12.954mm)	.760 (19.304mm)	88.00	201.00	59.00	143.00	42.00	109.00	25.00
.760 (19.304mm)	1.010 (25.654mm)	111.00	257.00	72.00	179.00	55.00	145.00	35.00



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.
2. 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.
5. Special marking may be added for an additional charge. (\$20.00 min).
6. Long Form calibration reports must be purchased on all classes: add \$20.00 per member.
7. Calibration stickers available @ \$5.00 per sticker (advise calibration cycle).
8. All pin style above .760 up to and including 1.500 price upon application.
9. All trilock style from .760 up to and including 1.500 price upon application.
10. CHROME: Add 50% to each member.
11. XXX gages quoted upon request.

CYLINDRICAL TRILOCK GAGES

Nominal Size Above To & Incl	Go Class XX Members	Not Go Class XX Members	Go & Not Go Class XX W/Handle	Go Class X Members	Not Go Class X Members	Go & Not Go Class X W/Handle	Go Class Y & Z Members	Not Go Class Y & Z Members	Go & Not Go Class Y & Z W/Handle	Handle Only
1.510 1.760 (38.354mm) (44.704mm)	115.00	111.00	252.00	108.00	97.00	231.00	97.00	94.00	217.00	26.00
1.760 2.010 (44.704mm) (51.054mm)	115.00	111.00	252.00	108.00	97.00	231.00	105.00	97.00	228.00	26.00
2.010 2.260 (51.054mm) (57.404mm)	139.00	123.00	288.00	119.00	107.00	252.00	108.00	100.00	234.00	26.00
2.260 2.510 (57.404mm) (63.754mm)	139.00	123.00	288.00	119.00	107.00	252.00	108.00	100.00	234.00	26.00
2.510 2.760 (63.754mm) (70.104mm)	162.00	139.00	361.00	140.00	112.00	312.00	119.00	110.00	289.00	30.00
2.760 3.010 (70.104mm) (76.454mm)	162.00	139.00	361.00	140.00	112.00	312.00	119.00	110.00	289.00	30.00
3.010 3.260 (76.454mm) (82.804mm)	236.00	186.00	482.00	199.00	175.00	434.00	175.00	162.00	397.00	30.00
3.260 3.510 (82.804mm) (89.154mm)	236.00	186.00	482.00	199.00	175.00	434.00	175.00	162.00	397.00	30.00





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 @ \$5.00 per sticker (advise calibration cycle).
7. CHROME: Add 50% to each member.

CYLINDRICAL PROGRESSIVE GAGES

Nominal Size		Class XX Members	Class X Members	Class Y & Z Members	Handle Only
Above	To & Incl				
.059 (1.499mm)	.105 (2.667mm)	C.I.Q.	C.I.Q.	C.I.Q.	15.00
.105 (2.667mm)	.150 (3.810mm)	112.00	102.00	95.00	15.00
.150 (3.810mm)	.185 (4.699mm)	110.00	100.00	91.00	15.00
.185 (4.699mm)	.230 (5.842mm)	112.00	100.00	92.00	15.00
.230 (5.842mm)	.365 (9.271mm)	112.00	100.00	92.00	15.00
.365 (9.271mm)	.510 (12.954mm)	114.00	100.00	94.00	15.00
.510 (12.954mm)	.635 (16.129mm)	122.00	109.00	100.00	15.00
.635 (16.129mm)	.760 (19.304mm)	122.00	109.00	100.00	15.00
.760 (19.304mm)	.825 (20.955mm)	123.00	109.00	100.00	15.00
.825 (20.955mm)	1.135 (28.829mm)	136.00	116.00	112.00	15.00
1.135 (28.829mm)	1.510 (38.354mm)	155.00	121.00	113.00	15.00





Pennoyer-Dodge Co. Cylindrical Ring Gages

American Gage Design

How To Order

1. State Quantity desired.
2. Nominal decimal size and tolerance class.
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.
6. Calibration stickers available @ \$5.00 per sticker (advise calibration cycle).
7. CHROME: Add 50% per ring for .125 and up.
8. XXX Master rings quoted upon request.

CYLINDRICAL RING GAGES

Nominal Size		Class XX Members	Class X Members	Class Y & Z Members
Above	To & Incl			
.062 (1.575mm)	.070 (1.778mm)	195.00	160.00	157.00
.070 (1.778mm)	.090 (2.286mm)	179.00	148.00	145.00
.090 (2.286mm)	.150 (3.810mm)	179.00	148.00	145.00
.150 (3.810mm)	.230 (5.842mm)	135.00	123.00	115.00
.230 (5.842mm)	.365 (9.271mm)	117.00	108.00	103.00
.365 (9.271mm)	.510 (12.954mm)	118.00	109.00	102.00
.510 (12.954mm)	.825 (20.955mm)	123.00	114.00	107.00
.825 (20.955mm)	1.135 (28.829mm)	125.00	122.00	113.00
1.135 (28.829mm)	1.510 (38.354mm)	155.00	137.00	127.00
1.510 (38.354mm)	2.010 (51.054mm)	188.00	173.00	162.00
2.010 (51.054mm)	2.510 (63.754mm)	233.00	210.00	194.00
2.510 (63.754mm)	3.010 (76.454mm)	270.00	239.00	221.00
3.010 (76.454mm)	3.510 (89.154mm)	314.00	278.00	257.00
3.510 (89.154mm)	4.010 (101.854mm)	360.00	326.00	302.00
4.010 (101.854mm)	4.760 (120.904mm)	412.00	355.00	329.00
4.760 (120.904mm)	5.510 (139.954mm)	551.00	459.00	421.00





Pennoyer-Dodge Co.

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 THUR 3"	25.00	35.00	55.00	60.00
OVER 3" TO 6"	35.00	45.00	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"	35.00	60.00	65.00
STANDARDS ABOVE 1 1/2" TO 3" AND SPECIALS UP TO 3" (60 DEGREE)	60.00	75.00	80.00
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	28.00
OVER 5.00	CALL FOR CURRENT PRICING
FOR XXX TOL. CALIBRATION	CALL FOR CURRENT PRICING

CYLINDRICAL RINGS	PER MEMBER
.059 THRU .125	60.00
Above .125 THRU 4.010	50.00
Above 4.010 THRU 6.010	60.00
OVER 6.010	CALL FOR CURRENT PRICING
FOR XXX TOL. CALIBRATION	CALL FOR CURRENT PRICING

PRICES SUBJECT TO CHANGE WITHOUT NOTICE 03/24/2020 Rev C - 29



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 & Trapezoidal
Threads
Buttress Threads
Metric Threads
Whitworth 55°
Straight 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, Re-
versible, 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 toleranc-
es.
Jig Grinding
Lap I.D. and O.D. Parts to close
tolerances.
Lapping of Plugs and Rings -
Both Plain and Threads.



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

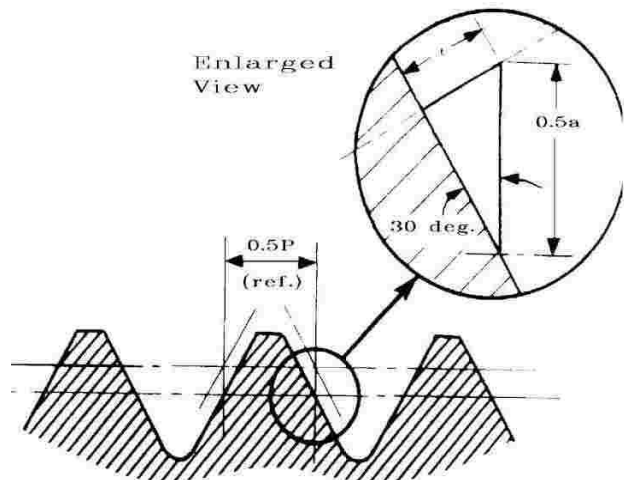
Based on .0002 to .0003 allowance per side (multiply by 4)
 $.0002 \times 4 = .0008$ **MIN.**
 $.0003 \times 4 = .0012$ **MAX.**
 1/4-28 UNF 2B B/P
Basic GO P.D. $.2268 + .0012$ **MAX.** = .2280 Go P.D.
Basic NOT GO P.D. $.2311 + .0008$ **MIN.** = .2319 Not Go P.D.
Basic GO major $.2500 + (.0012 / 2)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



RATIO OF PITCH DIAMETER CHANGE TO THICKNESS OF COATING (60° ONLY)

t = thickness of coating
 a = pitch diameter change due to coating

$0.25a = t$ and $a = 4t$ or the pitch diameter of a 60° thread changes by four times the thickness of the coating

BEFORE PLATING RATIOS FOR PITCH DIAMETER

60° thread = 4:1
 29° Acme = 8:1
 7°-45° Buttress = 4.3138:1
 14° 30°-5° Buttress = 11.9311:1
 10° Square thread = 23:1

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)

PENNOYER-DODGE CO.

introduces

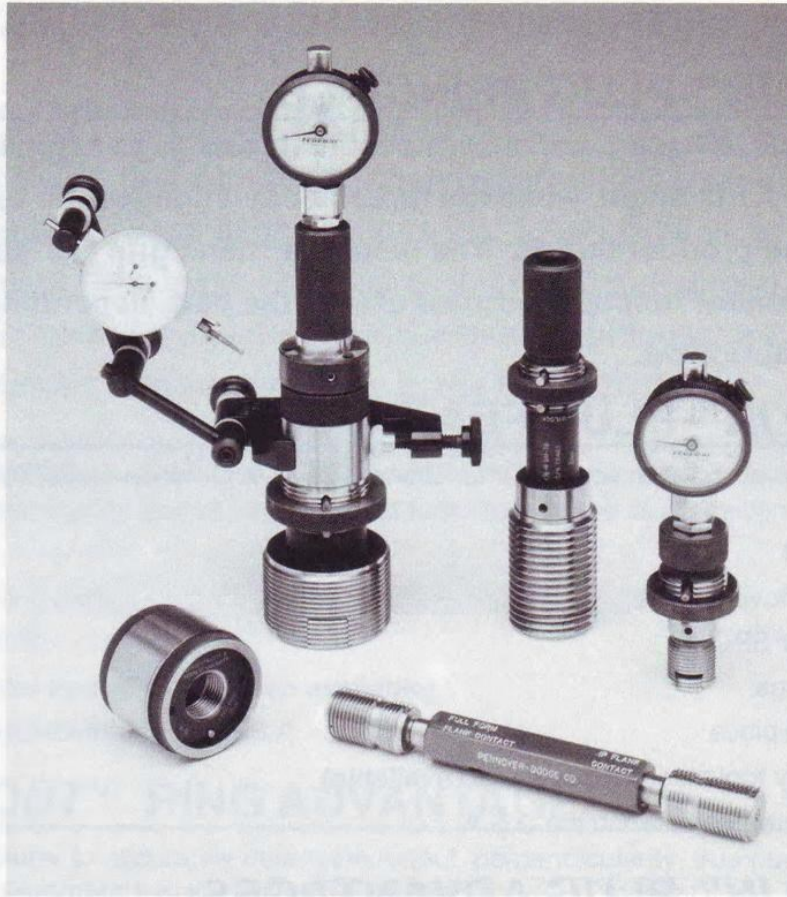
"TWIST'ER GAGES"



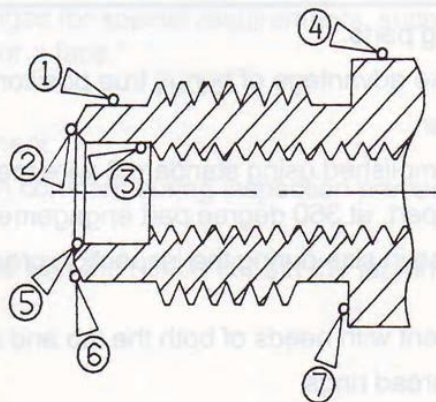
MMC

RFC

LMC



SPC



Functional Location - P.D. Limit & Size

"When you want it Right...and Right away"



Pennoyer-Dodge Co.

“TWISTER OUT”

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.

“TWISTER IN”

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

$\oplus$	$\varnothing.005$	$\textcircled{M}$	P.D. (Functional Diameter)
----------	-------------------	-------------------	----------------------------
- **No need** 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.

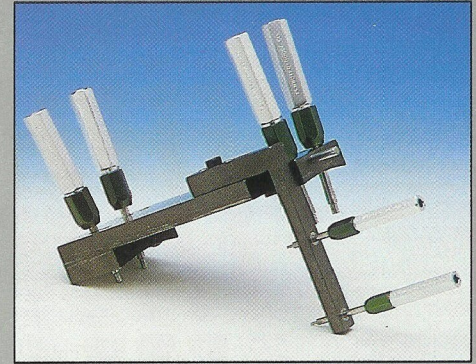
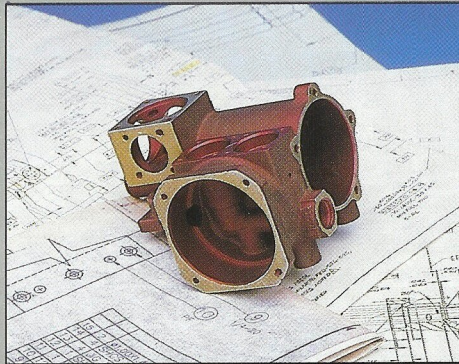
Prices available upon application

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.



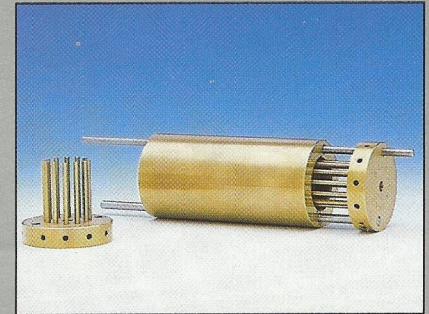
CUSTOM ENGINEERING AND SPECIAL TOOLING

- **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.

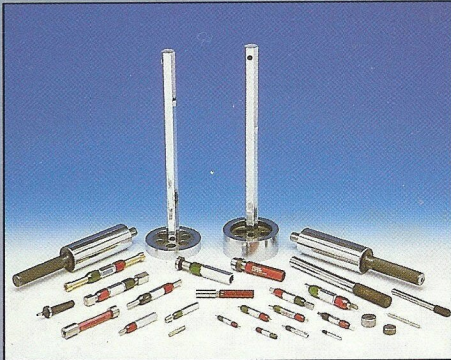


"When you want it right ... and right away" - Call...

PENNOYER-DODGE COMPANY, GLENDALE, CA.
FAX: (818) 240-5719 (213) 245-8971 (818) 240-1170

INDUSTRIES SERVED

- AEROSPACE
- AIRCRAFT
- AUTOMOTIVE
- COMMERCIAL APPLICATION
- COMPUTER
- DEFENSE
- ELECTRONICS
- MEDICAL
- NUCLEAR
- OIL FIELD
- ORDINANCE



PRODUCTS AND SERVICES AVAILABLE

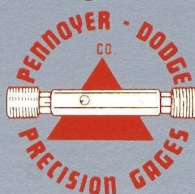
THREAD PLUG GAGES
 THREAD RING GAGES
 THREAD SETTING PLUGS
 REVERSIBLE THREAD GAGES
 S.T.I. THREAD GAGES
 OIL COUNTRY GAGES
 TAPERED PIPE GAGES
 METRIC GAGES
 ACME GAGES
 BUTTRESS GAGES
 WHITWORTH GAGES
 SQUARE THREADS
 BRITISH PIPE GAGES
 VARIABLE GAGING

CYLINDRICAL PLUG GAGES
 CYLINDRICAL RING GAGES
 PROGRESSIVE PLUG GAGES
 PIN TYPE GAGES
 MASTER DISKS
 PROFILE GAGES
 M.S. PLUG GAGES
 A.N. PORT PLUG GAGES
 HOSE FITTING GAGES
 PADDLE GAGES
 LEUR GAGES
 AIR PLUGS AND PROBES
 MANDRILS

FIXTURE GAGES
 FLUSH PIN GAGES
 CONCENTRICITY GAGES
 TRUE POSITION GAGES
 RADIUS GAGES
 RECEIVER GAGES
 TEMPLATE GAGES
 CRIMPING TOOL GAGES
 ROLL THREAD SNAP GAGES
 (ALSO CONE & V)
 CUSTOM LAPPING
 LEAD SCREWS
 SPECIAL THREAD GRINDING
 CONTRACT JIG GRINDING

"When you want it right ... and right away"

PENNOYER-DODGE COMPANY
 6634 SAN FERNANDO ROAD
 GLENDALE, CALIFORNIA 91201



CALL

Our New Number

(818) 547-2100 • FAX (818) 240-5719
 6650 SAN FERNANDO ROAD
 GLENDALE, CA 91201-1017