

Lead Gage Thread Lead

LG-5002

LG-5003



**LG-5002
Lead Gage**



**LG-5003
Lead Gage**



**Lead Gage
Setting Standard**



Inspects Thread Lead

HOW TO ORDER

1. Select the LG-5002 or LG-5003 gage model.
2. Select the proper contact points for the application, based on the type of connection and pitch/TPI (sold separately and individually).
3. Select the lead gage setting standard, based on the type of connection, taper and threads per inch (sold separately).

The lead gage inspects both internal and external thread lead using contact points that seat in the threads of a part. Thread lead is the distance between threads, measured on a plane parallel to the centerline of the threaded part. The pitch of the thread determines the diameter of the contact points required for taking measurements.

The LG-5002 uses a two-point system to inspect thread lead for ACME, Stub ACME, UN or API threads. The two points allow for a sweeping action to obtain the measurement.

The LG-5003 uses the three point system to inspect thread lead for ACME, Stub ACME, UN threads or API threads. Two fixed contact points at the rear of the gage and one moveable contact point at the front of the gage provide complete stability when taking thread lead measurements. This unique design does not require sweeping to obtain measurements. Plus, contact points can be easily changed to allow the gage to be used on a variety of thread forms.

Before inspecting parts, the lead gage must be preset to a nominal predetermined dimension using a lead gage setting standard. These setting standards are manufactured according to ANSI and API specifications. Lead standards are available for ACME, Stub ACME, UN and API threads.

Features

- Uses a three-point system for greater stability when inspecting parts (LG-5003).
- Uses interchangeable contact points to allow inspection on a variety of thread forms.
- Requires presetting using Gagemaker's lead gage setting standards.

LG-5002 & LG-5003 Gage

Model No.	Description	Range
LG-5002	Two-Point Lead Gage	1/2" – 4" Thread Leads
LG-5003	Three-Point Lead Gage	1/2" – 4" Thread Leads

LG-5002 & LG-5003 Lead Gage Contact Points (Sold Individually)

Two per LG-5002 & three per LG-5003.

ACME or Stub ACME Threads		UN Series Threads	
Model No. Chrome/Carbide	Thread Pitch	Model No. Chrome/Carbide	Thread Pitch
T531T	1 pitch	T562	1 pitch
T344T	1.5 pitch	T288	2 pitch
T266T	2 pitch	T188/T188C	3 pitch
T219T	2.5 pitch	T188T188C	3.5 pitch
T188T/T188TC	3 pitch	T144/T144C	4 pitch
T144T/T144TC	3.5 pitch	T128/T128C	4.5 pitch
T128T/T128TC	4 pitch	T115/T115C	5 pitch
T105T/T105TC	5 pitch	T105/T105C	5.5 pitch
T090T/T090TC	6, 7 pitch	T096/T096C	6 pitch
T062T/T062TC	8 pitch	T072/T072C	8 pitch
T050T/T050TC	10 pitch	T057/T057C	10 pitch
T041T/T041TC	12 pitch	T050/T050C	11.5 pitch
T041T/T041TC	14 pitch	T050/T050C	12 pitch
T032T/T032TC	16 pitch	T041/T041C	14 pitch
		T041/T041C	16 pitch
		T032/T032C	18 pitch



LG-5002 & LG-5003 Lead Gage Contact Points (Sold Individually)

These contact points inspect the thread lead of API thread forms. Sold individually. Two per LG-5002 & three per LG-5003.

API Threads			
Model No	Connection Type	Point Diameter	Threads Per Inch
T235	Hughes Slim Line H-90	0.235"	3
T200	All Hughes H-90	0.200"	3 ½
T144	API Rotary Shouldered Connections	0.144"	4
T128	API Rotary Shouldered Connections	0.128"	4 ½
T115	API Rotary Shouldered Connections	0.115"	5
T105T	Truncated for Extreme Line	0.105"	5 ½
T096	API Rotary Shouldered Connections	0.096"	6
T072	API Tubing, Casing and Line Pipe	0.072"	8
T062	Buttress Casing - Lead	0.062"	5
T057	API Tubing and Line Pipe	0.057"	10
T050	API Line Pipe	0.050"	11 ½
T041	API Line Pipe	0.041"	14
T032	API Line Pipe	0.032"	18
T021	API Line Pipe	0.021"	27

LG-5002 & LG-5003 Lead Gage Setting Standards

Model No.	Connection Type	Taper	Threads Per Inch
LS-1001	8 & 10 Round Tubing / Casing	¾"	8 & 10
LS-1002	8 & 10 V Form Tubing (Straight)	0	8 & 10
LS-1003	Line Pipe Tubing / Casing	¾"	11½
LS-1004	Line Pipe (Straight)	0	11½
LS-1005	13 3/8" & Smaller Buttress Casing	¾"	5
LS-1006	16" & Larger Buttress Casing	1"	5
LS-1007	6 5/8" API Reg 4", 5½" - 6 5/8" FH 2 3/8"-5½" IF 2 7/8"-5" XH NC23 – NC50	2"	4
LS-1008	5½" Reg 7 5/8"-8 5/8" Reg NC56 – NC77	3"	4
LS-1009	2 3/8"-4 ½" Reg 2 7/8"-3 ½", 4½" FH	3"	5
LS-1010	2 3/8" Open Hole	1½"	4
LS-1011	3½"-6 5/8" H-90	2"	3½
LS-1012	7"-8 5/8" H-90	3"	3½
LS-1013	2 3/8"-3½" Slim line H-90	1¼"	3

Specifications

Model No.	Dimensions	Weights
LG-5002	5 7/8 in x 2 in x .875 in (149.2 mm x 50.8 mm x 22.2 mm)	1.0 lb. (.45kg)
LG-5003	7 in x 2 in X 2 in (177.8 mm X 50.8 mm X 50.8 mm)	1.0 lb. (.45kg)
Lead Standards	4.5 in x .75 in X .375 in (114.3 mm X 19.05 mm X 9.53 mm)	.5 lb. (.22 kg)

