



## Thread Lead

### Lead Gages

The lead gage inspects thread leads 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. API Specification 7-2 requires thread lead inspection.

The **LG-6001** and the **LG-6002** use a two-point system to inspect thread lead for straight and tapered threads. The **LG-6002** inspects both external and internal threads, while the **LG-6001** inspects external threads. The two point system allows for a sweeping action to obtain the measurement.

The **LG-5003** uses the three-point system to inspect internal and external thread lead. 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.

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. Lead standards are available for both straight and tapered threads. Our setting standards are manufactured according to ANSI and API specifications, respectively.

Please see pages 124-125 for contact points. See page 121 for standards.

### 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.



Model	Description	Minimum Bore	Range
LG-6001	External Lead Gage 2-point	1.200	½" - 2" Thread Length
LG-6001-1	External Lead Gage 2-point, .0001" grad. indicator	1.200	½" - 2" Thread Length
LG-6002	Lead Gage 2-point	1.200	½" - 4" Thread Length
LG-6002-1	Lead Gage 2-point, .0001" grad. indicator	1.200	½" - 4" Thread Length
LG-5003	Lead Gage 3-point Contact point spacing .500"	1.340	½" - 4" Thread Length
LG-5003-1	Lead Gage 3-point, .0001" grad. indicator, Contact point spacing .500"	1.340	½" - 4" Thread Length
LG-5003-J	Lead Gage 3-point, Contact point spacing .193"	1.340	½" - 4" Thread Length
LG-5003-1J	Lead Gage 3-point, .0001" grad., Contact point spacing .193"	1.340	½" - 4" Thread Length
LG-5003-L	Special Load-to-Load lead gage	1.500	½" - 4" Thread Length
LG-5003-S	Special Stab-to-Stab lead gage	1.500	½" - 4" Thread Length