



## A brief discussion about Gage calibration and API Thread Gages

**Gage calibration** is referred to a process that comprises of turning time measurements into a thickness measurement. The gage used in **Gage calibration** must be programmed in the test material with the speed of sound. This process is necessary for any zero offsets and which is required by any instruments or transducer.



**The process includes seven steps that enable the gage calibration:**

- The pointer should be pointed on zero on the scale before any type of pressure is applied on.
- Full-range pressure is applied



- Again the degree of pressure application is reduced to zero.
- The repetition of the second and third step is carried on until and unless correct readings are obtained.
- The rate of applied pressure now should be put on to 50% of the maximum scale.
- The adjustment takes time to be perfectly pointed. Until and unless this is fixed, the operation should be on
- The reading of gages should be written on a calibration sheet
- A graph is drawn to represent the collected data

**Api thread Gages** stands for American Petroleum Institute thread gages. These can be used as many types of gages like working gages, reference and regional master gages and grandmaster gages.



The **API thread Gages** come up with so many varieties including:

➤ **API specification 5B:**

This is made up of long and short casing. The abbreviation of both of the parts is as follows LTC and STC. There are eight round casing



plug and ring gages. Besides, that presence of extreme line casing plug and butter casing plugs are also seen.

➤ **API specification 7-2:**

This is made up of regular rotary plug and ring gages as well as numbered connection plugs and ring gages. Full whole plug and internal flush plug along with ring gages enhances its ability to carry on preferred connections job.

The **API thread Gages** are required for the inspections of oil and gas-related industry products so that no harm can occur while working with all the products.

The gages which are thoroughly examined and pass the trial procedure, as well as receive a licensed certificate, should be opted for use. There are many companies you can search online which are trustworthy being at their service of providing gages consistently. The companies generally provide the facility of custom design and manufacturing as per your convenience too.

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