Specification for Threading, Gauging and Thread Inspection of Casing, Tubing, and Line Pipe Threads

API SPECIFICATION 5B
FIFTEENTH EDITION, APRIL 2008

EFFECTIVE DATE: OCTOBER 1, 2008

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Upstream Segment

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Standards referenced herein may be replace by other international or national standards that can be shown to meet or exceed the requirements of the referenced standard.

This fifteenth edition of API Spec 5B contains the following changes to the previous edition:

- Addendum 1, March 2004, and Errata, April 9, 1998, of the fourteenth edition are included in the text.
- Added SR22 in Appendix D.
- New metric tables added in Appendix E.
- New metric drawings added in Appendix F.
- Text formatted to a single column.
- Moved Extreme-Line Casing to Appendix G.
- Changed Pin Chamfer Angle from 65° to 60° (Agenda Item 3067).
- Additional editorial items.

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1 Scope

1.1 COVERAGE

This Specification covers dimensions and marking requirements for API Master thread gauges. Additional product threads and thread gauges as well as instruments and methods for the inspection of threads for line pipe, round thread casing, buttress casing, and extreme-line casing connections are included. It is applicable when so stipulated in the API standard governing the product. The inspection procedures for measurements of taper, lead, height, and angle of thread are applicable to threads having $11\frac{1}{2}$ or less turns per in. ($11\frac{1}{2}$ or less turns per 25,4 mm). All thread dimensions shown without tolerances are related to the basis for connection design and are not subject to measurement to determine acceptance or rejection of product.

By agreement between the purchaser and manufacturer, the supplemental requirements for Enhanced Leak Resistance LTC in SR22 shall apply.

1.2 INSPECTION

Thread inspection applies at the point of manufacture prior to shipment, to inspection at any intermediate point, to inspection subsequent to delivery at destination, and to inspection by inspectors representing the purchaser or the manufacturer. The manufacturer may, at his or her option, use other instruments or methods to control manufacturing operations; but acceptance and rejection of the product shall be governed solely by the results of inspection made in accordance with the requirements of this Specification.

1.3 OTHER REQUIREMENTS

The applicable product specification should be consulted for requirements not given herein.

2 References

2.1 GENERAL

This Specification includes by reference, either in total or in part, the most recent editions of the following standards.

API

RP 5A3	*Recommended Practice on Thread Compounds for Casing, Tubing and Line Pipe*
RP 5B1	*Gauging and Inspection of Casing, Tubing, and Line Pipe Threads*
RP 5C1	*Care and Use of Casing and Tubing*
Spec 5CT	*Specification for Casing and Tubing*
Spec 5L	*Specification for Line Pipe*

ASME[1]

B1.3M	*Screw Thread Gauging Systems for Dimensional Acceptability—Inch and Metric Screw Threads*

2.2 REQUIREMENTS

Requirements of other standards included by reference in this Specification are essential to the safety and interchangeability of the equipment produced.

3 Definitions

3.1 defect: Imperfection of sufficient magnitude to warrant rejection of the product based on the stipulations of the applicable specification.

3.2 imperfection: Discontinuity or irregularity in the product detected by methods outlined in the applicable specification.

3.3 may: Used to indicate that a provision is optional.

[1]ASME International, 3 Park Avenue, New York, New York 10016, www.asme.org.