Reference Standards

A common issue of measurement problems is the use of standards and specifications that may be outdated. User of these standards should contact the reference sources to ensure they are working to the most current standard. The following list covers many popular gaging and measurement standards.

**ANSI/ASME B1.2**
Gages, and Gaging for United Inch Screw Threads

**ANSI/ASME B1.3M**
Screw Thread Gaging Systems for Dimensional Acceptability

**ANSI/ASME B1.16M**
Gages and Gaging for Metric M Screw Threads

**ANSI/ASME B1.20.1**
Pipe Threads, General Purpose (Inch)

**ANSI/ASME B1.20.5**
Gaging for Dryseal Pipe Threads

**ANSI/ASME B1.20.6M**
Metric Translation of ANSI/ASME B1.20.5

**ANSI/ASME B1.22M**
Gages and Gaging for MJ Series Metric Screw Threads

**ANSI/ASME B46.1**
Surface Texture, Roughness, Waviness and Lay

**ANSI/ASME B47.1**
Gage Blanks

**ANSI/ASME B89.1.2M**
Calibration of Gage Blocks by Contact Comparison Method

**ANSI/ASME B89.1.6M**
Measurement of Qualified Plain Internal Diameters for use as Master Rings and Ring Gages

**ANSI/ASME B89.1.9**
Gage Blocks (2002)

**ANSI/ASME B89.3.1**
Measurement of Out of Roundness

**ANSI/ASME B89.6.2**
Temperature and Humidity Environment for Dimensional Measurement

ANSI/ASME B89.1.17-2001
Measurement of Thread Measuring Wires

ANSI/ASME B89.1.5-1998
Measurement of Plain External Diameters for Use as Master Discs or Cylindrical Plug Gages

ANSI/ASME B89.7.3.1

ANSI/NCSL Z-540-1
Calibration Laboratories and Measuring and Test Equipment – General Requirements

ANSI/NCSL Z-540-2
American National Standard for Expressing Uncertainty

ANSI/ASME B89.1.13
Micrometers

ANSI/ASME B89.1.14
Vernier Gages and Digital Calipers

ASME B1.10M
Unified Miniature Screw Threads

FED-STD-H28/22
Gages and gaging for Metric Screw Threads –M and MJ Thread Forms

API SPECIFICATION 11B – Specification for Sucker Rods

API SPECIFICATION 5B
Threading, Gauging, and Thread Inspection of Casing, Tubing, and Line Pipe Threads

ANSI/API SPECIFICATION 7-2 (Formerly in Spec 7)
Specification for Threading and Gauging of Rotary Shouldered Thread Connections

API SPECIFICATION 7
Specification for Rotary Drill Stem Elements

API SPECIFICATION 5CT
Specification for Casing and Tubing

API SPECIFICATION 11AX
Specification for Subsurface Sucker Rod Pumps and Fittings

ISO GUM
Guide to the Expression of Uncertainty in Measurement

ISO/IEC 17025
General requirements for the competence of testing and calibration laboratories
BS21:1985
Pipe threads for tubes and fittings where pressure tight joints are made on the threads (metric dimensions)

BS 21:1985
Pipe threads for tubes and fittings where pressure tight joints are made on the threads (metric dimensions)

BS EN ISO 228-1:2003
Pipe threads where pressure tight joints are not made on the threads
Part 1: Dimensions, tolerance & designation

BS EN ISO 228-2:2003
Pipe threads where pressure tight joints are not made on the threads
Part 2: Verification by means of limit gauges

BS EN 10226-1:2004
Pipe threads where pressure tight joints are made on threads
Part 1: Taper external threads and parallel internal threads-dimensions, tolerance & designation

BS EN 10226-2:2005
Pipe threads where pressure tight joints are made on the threads
Part 2: Taper, external threads & taper internal threads-Dimensions, tolerances & designation

BS EN 10226-3:2005
Pipe threads where pressure tight joints are made on the threads
Part 3: Verification by means of limit gauges

ISO 7-1 3rd edition 1994-05-15
Pipe threads where pressure tight joints are made on the threads
Part 1: Dimensions, tolerances & designation

ISO 7-2 2nd edition 2000-09-15
Pipe threads where pressure tight joints are made on the threads
Part 2: Verification by means of limit gauges

ISO 228-1 4th edition 2000-09-01
Pipe threads where pressure tight joints are not made on the threads
Part 1: Dimensions, tolerances & designation

ISO 228-2 2nd edition 1987-08-15
Pipe threads where pressure tight joints are not made on the threads
Part 2: Verification by means of limit gauges