



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

HYDRO-CHART
7709 E 42nd Place, Ste 104
Tulsa, OK 74145
Otto V. Harrison Phone: 918 834 3210

CALIBRATION

Valid To: February 28, 2025

Certificate Number: 6145.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations^{1,4}:

I. Mechanical

Parameter/Equipment	Range	CMC ^{2,3,5} (±)	Comments
Pressure – Measuring Equipment	Up to 750 psig (>750 to 2400) psig (>2400 to 3000) psig (>3000 to 10 000) psig	1.8 psi 1.9 psi 2.0 psi 2.8 psi	ASME B40.100 Digital pressure gauges
	(200 to 1000) psig (>1000 to 8000) psig (>8000 to 15 000) psig	0.20 psi 0.018 % 0.019 %	Deadweight tester
Torque Wrenches – Type I and Type II	(25 to 250) lbf-in	2.2 % rdg	ASME B107.300 Digital torque tester
	(25 to 250) lbf-ft	1.8 % rdg	
	(60 to 600) lbf-ft	2.1 % rdg	

II. Thermodynamics

Parameter/Equipment	Range	CMC ^{2,5} (±)	Comments
Temperature – Measuring Instruments	(40 to 120) °F	0.17 °F	Digital thermometer with PRT

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

³ In statement of CMC, percentages are percentage of reading, unless otherwise indicated.

⁴ This scope meets A2LA's *P112 Flexible Scope Policy*.

⁵ The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.



Accredited Laboratory

A2LA has accredited

HYDRO-CHART

Tulsa, OK

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 2nd day of February 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 6145.01
Valid to February 28, 2025

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.