



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

A.G. Davis Gage & Engineering Co. Inc.
6533 Sims Drive
Sterling Heights, MI 48313

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

CALIBRATION

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 02 October 2023
Certificate Number: AC-1568



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

A.G. Davis Gage & Engineering Co. Inc.

6533 Sims Drive
Sterling Heights, MI 48313
Dwayne Downer
586-977-9000

CALIBRATION

Valid to: **October 2, 2023**

Certificate Number: **AC-1568**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Angle	0° to 360°	0.049 arc second	HP Agilent Laser Measuring System w/ D.A.A.A.M. System
Angle ¹	0° to 360°	0.15 arc second	Comparison to Master Index Table
X-Y Axis	(0 to 60) in	0.000 3 in	HP Agilent Laser Measuring System w/ SIP Hydroptic-7A
Inside Diameter	(0.05 to 1) in (1.27 to 25.4) mm (1 to 12) in (25.4 to 304.8) mm	59 μin 1.5 μm (24 + 9L) μin (0.6 + 0.009L) μm	Comparison made with Federal Products Horizontal Master Comparator and Gage Blocks

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-) ²	Reference Standard, Method, and/or Equipment
Outside Diameter / Length	(0.05 to 1) in	59 μin	Comparison made with Federal Products Horizontal Master Comparator and Gage Blocks
	(1.27 to 25.4) mm	1.5 μm	
	(1 to 12) in	(24 + 9L) μin	
	(25.4 to 304.8) mm	(0.6 + 0.009L) μm	
Outside Diameter / Height / Length	(0.05 to 1) in	60 μin	Comparison made with Mikrokator, Surface Plate, and Gage Blocks
	(1.27 to 25.4) mm	1.5 μm	
	(1 to 12) in	(54 + 6.4L) μin	
	(25.4 to 304.8) mm	(1.4 + 0.006 4L) μm	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. L = length in inches and millimeters respective to unit shown in range.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-1568.



R. Douglas Leonard Jr., VP, PILR SBU