



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017  
& ANSI/NCSL Z540-1-1994

VERMONT THREAD GAGE, LLC  
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CALIBRATION

Valid To: August 31, 2023

Certificate Number: 3821.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1,4</sup>:

I. Dimensional

Parameter/Equipment	Range	CMC <sup>2,3</sup> (±)	Comments
Straight Thread Plug Gage –	Major Diameter	Up to 12 in	(53 + 8L) μin Mikrokator, gage blocks
	Simple Pitch Diameter	Up to 12 in	(75 + 6L) μin Mikrokator, gage blocks, 3-wire method
	Lead	Up to 12 in	130 μin Zeiss Contourecord
	Flank Angle	180°	4.3' 6' Zeiss Contourecord Optical comparator
Straight Thread Ring –	Pitch Diameter	Up to 12 in	(75 + 6L) μin Master set plug
	Minor Diameter	Up to 0.800 in	(130 + 11L) μin Gage pins
		(0.5001 to 12) in	(160 + 31L) μin Mitutoyo Holtest

Parameter/Equipment	Range	CMC <sup>2,3</sup> (±)	Comments
Tapered Thread Plug –			
Major Diameter	Up to 12 in	$(97 + 7L) \mu\text{in}$	Mikrokator, gage blocks, taper blocks
Simple Pitch Diameter	Up to 12 in	$(76 + 6L) \mu\text{in}$	Mikrokator, gage blocks, 3-wire method
Taper	Up to 12 in	$(110 + 9L) \mu\text{in}$	PD measurements
Lead	Up to 12 in	130 $\mu\text{in}$	Zeiss Contourecord
Flank Angle	180°	4.3' 6'	Zeiss Contourecord Optical comparator
Tapered Thread Ring –			
Pitch Diameter	Up to 12 in	$(210 + 17L) \mu\text{in}$	Master plugs
Standoff	Up to 12 in	$(0.0034 + 0.00028L) \text{in}$	
Minor Diameter	Up to 12 in	$(140 + 9L) \mu\text{in}$	
Tapered Plain Plug –			
Major Diameter	Up to 12 in	$(110 + 6L) \mu\text{in}$	Mikrokator, gage blocks, taper blocks
Taper	Up to 12 in	$(150 + 9L) \mu\text{in}$	OD measurements
Tapered Plain Ring –			
Minor Diameter	Up to 12 in	$(140 + 7L) \mu\text{in}$	Master plug
Taper	Up to 12 in	$(330 + 1L) \mu\text{in}$	Zeiss Contourecord

Parameter/Equipment	Range	CMC <sup>2,3</sup> ( $\pm$ )	Comments
Hex, Square, and Rectangular Plugs –  Across Flats	Up to 0.0999 in (0.1000 to 3) in	51 $\mu$ in (37 + 5L) $\mu$ in	Mikrokator, gage blocks
Across Corners	Up to 0.0999 in (0.1000 to 3) in	98 $\mu$ in (50 + 3L) $\mu$ in	
Length – Gage and Step Height	Up to 4 in	(120 + 8L) $\mu$ in	Gage blocks, indicator w/ stand

<sup>1</sup> This laboratory offers commercial calibration service.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMC's 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.

<sup>3</sup> In the statement of CMC,  $L$  is the numerical value of the nominal length of the device measured in inches.

<sup>4</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.



# Accredited Laboratory

A2LA has accredited

## VERMONT THREAD GAGE, LLC

Franklin, KY

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 the requirements of ANSI/NCSL Z540-1-1994 and 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 24<sup>th</sup> day of June 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 3821.01  
Valid to August 31, 2023

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