



MICRO PRECISION CALIBRATION, INC.
22835 INDUSTRIAL PLACE
GRASS VALLEY CA 95949
530-268-1860



Certificate of Calibration

Date: January 06, 2025

Cert No. 5523631032306382

Customer:

SAMPLE COMPANY
22835 INDUSTRIAL PLACE
GRASS VALLEY CA 95949

Work Order #: SAMPLE

MPC Control #: AB1234
Asset ID: 012345
Gage Type: NPT THREAD RING GAGE
Manufacturer: VAN KEUREN
Model Number: 2-11 1/2 NPT
Size: N/A
Temp/RH: 68°F / 42 %
Location: Calibration performed at MPC facility

Received Date: Jan 3, 2025
Serial Number: 123456
Department: N/A
Performed By: CHRIS LEWIS
Received Condition: IN TOLERANCE
Returned Condition: IN TOLERANCE
Cal. Date: January 06, 2025
Cal. Interval: 12 MONTHS
Cal. Due Date: January 06, 2026

Calibration Notes:

See attached calibration report. (1 page)

Standards Used to Calibrate Equipment

I.D.	Description.	Model	Serial	Manufacturer	Cal. Due Date	Traceability #
AX8958	LAB MASTER	U306270	LMU-2150	PRATT & WHITNEY	May 31, 2027	5523631032005678
DU1610	NPT THREAD RING GAGE 10 PC SET	1/16-27 TO 2-11 1/2	1	THREAD CHECK	Jan 31, 2026	5523631030592310
AW9727	81 PC GAUGE BLOCK SET, GRADE 00	516-901-26	AW9727	MITUTOYO	Oct 31, 2027	5523631031346512

Procedures Used in this Event

Procedure Name	Description
NAVAIR 17-20MD-149	Taper Pipe Thread Ring Gages, May-01-1994

Calibrating Technician:

CHRIS LEWIS

QC Approval:

ROBERT MEANS

STATEMENTS OF PASS OR FAIL CONFORMANCE: The uncertainty of measurement has been taken into account when determining compliance with specification. All measurements and test results guard banded to ensure the probability of false-accept does not exceed 2% in compliance with ANSI/NCSL Z540.3-2006.

THE CALIBRATION REPORT STATUS:

PASS: Term used when compliance statement is given, and the measurement result is PASS.

PASS²: Term used when compliance statement is given, and the measurement result is conditional passed or PASS².

FAIL: Term used when compliance statement is given, and the measurement result is FAIL.

FAIL²: Term used when compliance statement is given, and the measurement result is conditional failed or FAIL².

REPORT OF VALUE: Term used when reported measurement is not requiring compliance statement in report.

ADJUSTED: When adjustments are made to an instrument which changes the value of measurement from what was measured as found to new value as left.

LIMITED: When an instrument fails calibration but is still functional in a limited manner.

The expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%, unless otherwise stated.

This calibration report complies with ISO/IEC 17025:2017, ANSI/NCSL Z540.3-2006 and ANSI/NCSL Z540.1-1994. Calibration cycles and resulting due dates were submitted/approved by the customer. Any number of factors may cause an instrument to drift out of tolerance before the next scheduled calibration. Recalibration cycles should be based on frequency of use, environmental conditions and customer's established systematic accuracy. All standards are traceable to SI through the National Institute of Standards and Technology (NIST) and/or recognized national or international standards laboratories. Services rendered include proper manufacturer's service instruction and are warranted for no less than thirty (30) days. The information on this report pertains only to the instrument identified, this may not be reproduced in part or in a whole without the prior written approval of the issuing MP Calibration Laboratory.

Calibration Report of Van Keuren 2-11 1/2 NPT NPT Thread Ring Gage

MPC Control #:	AB1234	Serial Number:	123456
Asset ID:	012345	Calibration Date:	January 06, 2025

Pitch Diameter Accuracy

Function Tested	Nominal	Lower Limit	As Found	As Left	Upper Limit	Result	Uncertainty ($\pm$)
Small End (E0) Plane	2.26902 in	2.26872 in	2.26892 in	2.26892 in	2.26932 in	PASS	0.000038 in
Gaging Notch (E1) Plane	2.29627 in	2.29597 in	2.29617 in	2.29617 in	2.29657 in	PASS	0.000038 in
Large End (E2) Plane	2.31630 in	2.31600 in	2.31621 in	2.31621 in	2.31660 in	PASS	0.000038 in

Minor Diameter Accuracy

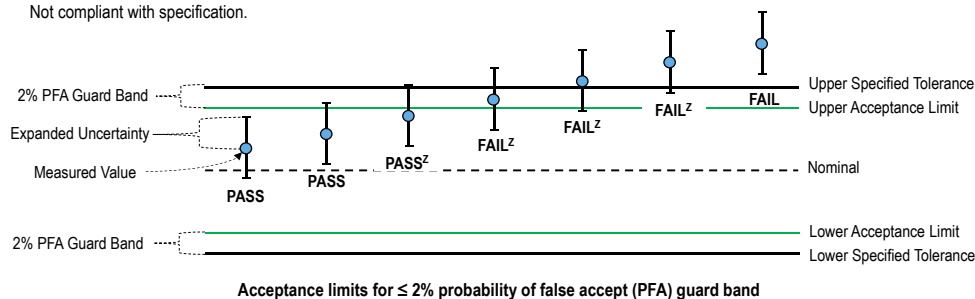
Function Tested	Nominal	Lower Limit	As Found	As Left	Upper Limit	Result	Uncertainty ($\pm$)
Small End (E0) Plane	2.21111 in	2.21011 in	2.21101 in	2.21101 in	2.21111 in	PASS	0.000015 in
Gaging Notch (E1) Plane	2.23836 in	2.23736 in	2.23826 in	2.23826 in	2.23836 in	PASS	0.000015 in

Statements of Pass or Fail Conformance

The uncertainty of measurement has been taken into account when determining compliance with specification.
All measurements and test results guard banded to ensure the probability of false-accept does not exceed 2% in compliance with ANSI/NC SL Z540.3-2006

The status of compliance with the acceptance criteria is reported as:

- PASS** — Compliant with specification.
- PASS^z** — The measured value is within acceptance limits.
However, a portion of the expanded uncertainty of measurement at 95% exceeds the specified tolerance.
- FAIL^z** — The measured value is not within the acceptance limits.
However, a portion of the expanded uncertainty of measurement at 95% is within the specified tolerance.
- FAIL** — Not compliant with specification.



The expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%, unless otherwise stated.

This calibration report complies with ISO/IEC 17025:2017 and ANSI/NC SL Z540.3-2006, Method 6 --- Guard Bands Based on Test Uncertainty Ratio.

- End of Calibration Report -