

ISO/IEC 17025:1999  
ISO 9002:1994

## Scope of Accreditation



Revised 8/25/04

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200605-0

**MAHR FEDERAL INC.**  
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**NVLAP Code:** 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

### DIMENSIONAL

**NVLAP Code:** 20/D03

Gage Blocks

<b>Range</b>	<b>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
0.05 in	2.5 $\mu$ in	
0.100 in to 0.19 in	2.0 $\mu$ in	
0.200 in to 0.950 in	2.0 $\mu$ in	
1 in to 2 in	2.5 $\mu$ in	
3 in	3.0 $\mu$ in	
4 in	4.0 $\mu$ in	
1 mm	56 nm	
2.5 mm to 4.5 mm	51 nm	
5 mm to 24.5 mm	51 nm	
25 mm to 50 mm	63 nm	

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75 mm	76 nm
100 mm	102 nm

**NVLAP Code:** 20/D05  
Length & Diameter - Indicators

<b>Range in inches</b>	<b>Best Uncertainty <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
Up to 0.100	21	M&TE
0.100 to 0.250	82	M&TE
0.250 to 2	82	M&TE

**NVLAP Code:** 20/D05  
Length - Air Amplifiers

<b>Range in inches</b>	<b>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
0.0003 to 0.003	12	M&TE Dimensionair <sup>®</sup>

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**NVLAP Code:** 20/D05

Length

**Range in inches**

0.0003 to 0.003

**Best Uncertainty in  $\mu\text{in}$  ( $\pm$ )<sup>note 1</sup>**

13

**Remarks**

M&TE  
All Mahr Federal Inc. AMR Kits

**NVLAP Code:** 20/D05

Length

**Range**

< 400 Arc Seconds

**Best Uncertainty ( $\pm$ )<sup>note 1</sup>**

0.40 Arc Seconds

**Remarks**

M&TE  
Electronic Levels System

0 in to 1 in

58  $\mu\text{in}$

**Remarks**

M&TE  
400 B3 & B4 Calibrators

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**NVLAP Code:** 20/D05

Length & Diameter - Outside Micrometers

<b>Range in inches</b>	<b>Best Uncertainty <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
0 to 1	58	M&TE
1 to 2	58	M&TE
2 to 3	58	M&TE
3 to 4	58	M&TE
4 to 5	58	M&TE
5 to 6	58	M&TE

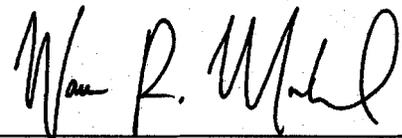
**NVLAP Code:** 20/D09

Roundness

<b>Range in inches</b>	<b>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
.124 to 2 diameter with a roundness < 100 $\mu\text{in}$	1	

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**NVLAP Code:** 20/D11  
Spherical Diameter; Plug

<i>Range in inches</i>	<i>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Up to 1	6	
1 to 2	7	
2 to 4	10	
4 to 10	(10 $\mu\text{in}$ + 1L)	

**NVLAP Code:** 20/D11  
Ring Gages

<i>Range in inches</i>	<i>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.125 to 5.0	7	Mahr 828 CIM
Up to 1	6	
1 to 2	7	
2 to 4	10	
4 to 14	(10 $\mu\text{in}$ + 1L)	

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**NVLAP Code:** 20/D11

Air Rings

<b>Range in inches</b>	<b>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
< 2	18	M&TE
2 to 4	25	M&TE

**NVLAP Code:** 20/D11

Air Plugs

<b>Range in in</b>	<b>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
< 1	12	M&TE
$\geq 1$ to 2	26	M&TE
> 2 to 3	28	M&TE
> 3 to 4	32	M&TE
> 4 to 5	33	M&TE

**NVLAP Code:** 20/D12

Surface Texture

<b>Range</b>	<b>Best Uncertainty in <math>\mu\text{in}</math> (<math>\pm</math>)<sup>note 1</sup></b>	<b>Remarks</b>
20 to 300 $\mu\text{inRa}$	2	

1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

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