National Institute of Standards and Technology

NVLAP®

National Voluntary Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation

Revised 8/25/04

CALIBRATION LABORATORIES **NVLAP LAB CODE 200038-0**

WEBBER GAGE DIVISION / L.S. STARRETT CO.
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NVLAP Code: 20/A01 ANSI/NCSL Z540-1-1994; Part 1 Compliant

DIMENSIONAL

NVLAP Code: 20/D03
Gage Blocks

Range	*Best Uncertainty (±)*[note 1,2,3]	*Remarks*
Standard Size Gage Blocks		
thru 1.0 in	1.35 μin[note 6]	Master Grade Calibration
thru 25 mm	0.0335 μm[note 6]	Master Grade Calibration
>1.0 thru 4.0 in	(0.65 + 0.7L) μin[note 6]	Master Grade Calibration
> 25 thru 100 mm	(0.016 + 0.7L) μm[note 6]	Master Grade Calibration
> 4.0 thru 20.0 in	(3.5 + 0.25L) μin	Master Grade Calibration
>100 thru 500 mm	(0.09 + 0.25L) μm	Master Grade Calibration
thru 4.0 in	(1.4 + 0.6L) μin[note 4]	Commercial Grade Calibration

December 31, 2004
Effective through

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thru 100 mm	(0.035 + 0.6L) μm[note 5]	Commercial Grade Calibration
>4.0 thru 20.0 in	(6.0 + 0.3L) μin	Commercial Grade Calibration
>100 thru 500 mm	(0.15 + 0.3L) μm	Commercial Grade Calibration
Non Standard Size Gage Blocks		
to 1.0 in	2.2 μin	Master Grade Calibration
to 25 mm	0.055 μm	Master Grade Calibration
>1.0 thru 4.6 in	(1.6 + 0.6L) μin	Master Grade Calibration
> 25 thru 117 mm	(0.04 + 0.6L) μm	Master Grade Calibration
>4.6 thru 20.0 in	(6.0 + 0.35L) μin	Master Grade Calibration
>117 thru 500 mm	(0.15 + 0.35L) μm	Master Grade Calibration

NVLAP Code: 20/D05
Step Gages

Calibration of Webber Style Step Gages

Range	*Best Uncertainty (±)*[note 1,2,3]	*Remarks*
to 85 in	(10 + 2.0L) μin	Commercial Grade
to 2150 mm	(.25 + .002L) mm	Commercial Grade

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1. Represents an expanded uncertainty using a coverage factor, k=2.
2. Approximate value. Actual value determined by the test statistics.
3. L is in inches or meters as appropriate.
4. Uncertainty not less than 2.0 μin.
5. Uncertainty not less than 0.05 μm.
6. Best uncertainty is for gage blocks of chrome-carbide material. Best uncertainty for materials other than chrome-carbide may be approximately 40% larger.

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