



Calibration Number  
G-000010079

# CALIBRATION CERTIFICATE

For  
5 - 1000 lb Weights

Submitted By  
Bastrop Scale Company, Incorporated  
PO Drawer 2100  
Bastrop, Texas 78602  
512-321-3443

The measurement results of the Texas Department of Agriculture, Giddings Metrology Laboratory are traceable to the International System of Units (SI) via the Consensus Value through the measurements at the National Institute of Standards and Technology (NIST) and are a part of comprehensive measurement assurance program for ensuring continuous accuracy and measurement traceability within the level of the uncertainty reported by this laboratory. The laboratory calibration number above is the unique report number to be used in referencing measurement traceability for artifacts identified in this certificate only. The data applies only to the artifacts identified in this certificate at the time of test. Calibration certificate shall not be reproduced, except in full, without written laboratory approval.

|                                                                          |                                |
|--------------------------------------------------------------------------|--------------------------------|
| Calibration Date: 07/23/2026                                             | Received Date: 07/22/2026      |
| Calibration Due: 07/31/2027                                              | Condition Received: Acceptable |
| Issue Date: 07/23/2026                                                   |                                |
| Average Temperature: 20.78 °C                                            |                                |
| Average Humidity: 51.92 %                                                |                                |
| Procedure: NISTIR 6969, SOP No. 8, Modified Substitution (Rev. 2019)     |                                |
| Mass Standards: Giddings Metrology Laboratory Mass Echelon III Standards |                                |

For cast-iron weights 10 kg and larger, acceptance tolerances corresponding to ASTM Class 6 (numerically equivalent to NIST Class F) have been applied. Listing ASTM Class 6 in the tolerance class column reflects the tolerance criteria used for evaluation only and does not constitute assignment, verification, or reclassification of weight class. Only compliance with tolerance specifications were evaluated for items listed on this certificate (failing values are indicated in the table, if any.) The uncertainty of the measurement was taken into account when making this statement of compliance. The weights were not evaluated for conformance with technical requirements (design, construction, material, magnetism, density, surface finish and marking.) Tolerances were taken from NIST 105-1 (1990), ASTM E617 (2023) or OIML R111 (2004).

The combined standard uncertainty consists of both Type A and Type B components, including the standard uncertainty reported for the standard, the standard uncertainty for the measurement process, and a component of uncertainty to account for any observed deviations that have a significant effect on the calibration combined, using the root sum square method. Air buoyancy was considered negligible and was not included. The uncertainty does not include contribution due to magnetism or irregular conditions on the surface of the weights. The expanded uncertainty given is in compliance with BIPM JCGM 100:2008, Guide to the Expression of Uncertainty in Measurement (GUM), 2008 and follows NISTIR 6969, SOP 29 (2019), with a variable  $k$  (coverage factor) representing a 95.45 % confidence level.

Note:

A positive correction indicates that the weight is heavier than the stated nominal value.  
A negative correction indicates that the weight is lighter than the stated nominal value.

Conversions:

milligram (mg) to kilogram (kg):  $kg = mg / 1000000$   
milligram (mg) to gram (g):  $g = mg / 1000$   
milligram (mg) to pound (lb):  $lb = mg \times 0.000002204622621848776$   
milligram (mg) to ounce (oz):  $oz = mg \times 0.00003527396194958041$

*This certificate must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.*

  
Lisa Corn

Manager for Metrology Laboratory  
Agency Representative



  
Kirt Weyand

Metrologist  
Approved Signatory

