



102 Gaither Drive, Unit 1 Mt. Laurel, NJ 08054

Pipewall Damage Indicator Inspection Certification Procedure

1.0 Purpose:

- 1.1 To establish a standard procedure to check Digimatic Pipewall Damage Indicator is operating correctly.

2.0 Materials:

- 2.1 Cleaning solution (Isopropyl Alcohol or similar).
- 2.2 Lint free cloth.
- 2.3 Clean disposable gloves.
- 2.4 Starrett A Grade Granite Surface Plate.
- 2.5 Mitutoyo Master Gauge Blocks, Inch.

3.0 Technique:

- 3.1 Examine the indicator for obvious external signs of damage or abuse that may affect the accuracy or function of the indicator.
- 3.2 Place indicator close to test station for at least ¼ hour before testing.
- 3.3 Clean the test surface, gauge blocks and spindle to remove any oil residue or other material(s). DO NOT allow cleaning solution to enter the unit.
- 3.4 With the indicator securely fastened to the base place carefully on the granite surface with the pointer on top of gauge block (use a 0.100-inch block)
- 3.5 "Zero" the indicator. Do this at least twice to make sure set up is stable.
- 3.6 Carefully remove the 0.1000" gauge block and replace with the 0.2500" gauge block and record the measurement.
- 3.7 Carefully remove the 0.2500" gauge block and repeat using the 0.3750" gauge block and record the measurement.
- 3.8 Repeat this again using the 0.5000" gauge block and record the measurement.



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Data Recording Sheet for Mitutoyo Digimatic Indicator Measurement (inch)

Company:	
Contact:	
Date:	
Tel. #:	
Cell #:	
P.O. #:	

After the initial origin setting the unit no longer needs absolute positioning over the entire battery life (Approx. 20,0000 hours), the origin is remembered even after power off.

Method: Comparison to Gauge Blocks traceable to NIST via No. 683/283699-13
 NIST: Confirmation of technical capability by the transfer standard. (ISO/IEC17043)

PLCS Part #	71-370002
Mitutoyo Product #	575-123
Product Serial #	
Model I.D. #	U1025E
Date of Inspection:	
Temperature:	(+/- 2°F)
0.10" Mitutoyo Gauge Block Certificate # T15A02175	ID # 140704
0.25" Mitutoyo Gauge Block Certificate # T15A07420	ID #150952
0.375" Mitutoyo Gauge Block Certificate # T19J10218	ID # 190104
0.50" Mitutoyo Gauge Block Certificate # T20J00979	ID # 201254
Tested by:	

Range	Recording	Recording	Recording	Approved
0.1000"				
0.2500"				
0.3750"				
0.5000"				

This certifies that the unit described has been tested against known gauge block dimensions and is within tolerance (+/- .0008").