



COMMITTED TO THE
CUSTOMER SINCE - 1996

Vaidyanatheshwara INSTRUMENTS

CERTIFICATE OF CALIBRATION



No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.
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NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Date of Issue: 04 - 03 - 2023

Sheet: 1 OF 1

Report No: VI/22-23/8113-17

Format No. : VI-FRM-ME-041

ULR No.: CC247323100008292F

Customer Name and Address

M/s. MAG ENGINEERING Unit A.,
46A, 3rd Main, 2nd Phase, Peenya,
Bangalore, Karnataka - 560058.

Customer Ref. No. and Date

DC NO: SAI/RGP 21-22/0351 & 28-02-2023

Received Condition

Satisfactory

SRF NO

8113

Date of Receipt

01-03-2023

CALIBRATED INSTRUMENT / EQUIPMENT DETAILS

Nomenclature	Thread Plug Gauge	Make	BAKER
Size	G1/2-14 ISO-228	Customer Instrument Reference No.	MS-13
Calibration Done At	VI Mechanical Lab	Temperature / Humidity	20.0 - 20.2°C 52% - 54% (RH)
Calibrated on	04 - 03 - 2023	Calibration due on	03 - 03 - 2024
Discipline	Mechanical (Dimensional)		

MASTER EQUIPMENT TRACEABILITY DETAILS

Nomenclature	Make	Range / Resolution	ID No.	Certificate No.	Traceable To	Validity
Universal Length Machine	Octagon	Upto 300 mm / 0.1 μ m	VI-ME-015	VI/22-23/INT-ME-171-01	VI-Bangalore	08-04-2023

CALIBRATION PROCEDURE

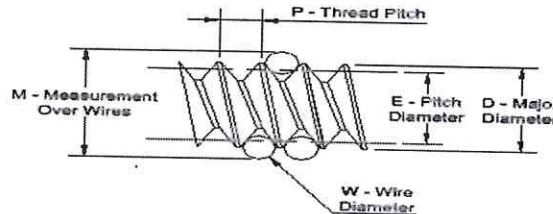
Used Wire Size : 1.100 mm

Measuring Method : Three Wire Method

Standard Used : ISO 228-2:2000

SOP NO:- 16-37

The Three Wire Method of Measuring Pitch Diameter



Gauge Nominal Values AS PER IS STANDARD

Gauge Nominal value	Go Side (mm)	No-Go Side (mm)
Major Diameter Max Value	20.9730	20.3158
Major Diameter Min Value	20.9490	20.2918
Effective Diameter Max Value	19.8120	19.9470
Effective Diameter Min Value	19.8000	19.9350
Effective Diameter Wear Limit	19.7870	19.9280
Minor Diameter Max Value	18.6310	18.4890

Calibration Results of Go side

Sl.no	Effective dia (mm)	Deviation (μ m)
01	19.8071	-
02	19.8074	-

Calibration Results of No-Go side

Sl.no	Effective dia (mm)	Deviation (μ m)
01	19.9468	-
02	19.9465	-

Conclusion:

Uncertainty of calibration at 95.45% Confidence level and Coverage Factor $K = 2 : \pm 3.2 \mu$ m

The Reported Results are valid only for the conditions of the received Instruments/gauges at the time of and under the stated conditions of the calibration.

Calibrated By

Syed Sikander
(Calibration Engineer)

Checked By

P. Santhosh Kumar
(Lab-In Charge)

