

CERTIFICATE OF CALIBRATION



No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.
Ph : 080-23377266, Mob : 9986586789 / 9632221171 / 9964308118 | Email : info@viplgroup.com Web : www.viplgroup.com

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

Format No. : VI-FRM-ME-041 ULR No.: CC247323100008290F Report No:VI/22-23/8113-15

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	MASTER METROLOGY	
Size	3/8"X19 BSP	Customer Instrument Reference No.	E356-E365 / M119	
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)			

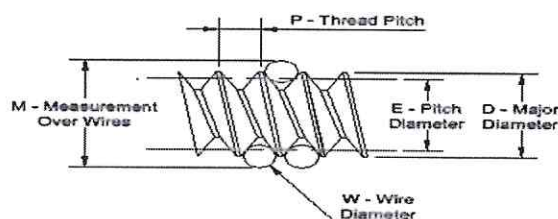
MASTER EQUIPMENT TRACEABILITY DETAILS

Nomenclature	Make	Range / Resolution	ID No.	Certificate No.	Traceable To	Validity
Universal Length Machine	Octagon	Upto300 mm / 0.1 µm	VI-ME-015	VI/22-23/INT-ME-171-01	VI-Bangalore	08-04-2023

CALIBRATION PROCEDURE

Used Wire Size : 0.725 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	16.6770	16.2134
Major Diameter Min Value	16.6570	16.1934
Effective Diameter Max Value	15.8190	15.9410
Effective Diameter Min Value	15.8090	15.9310
Effective Diameter Wear Limit	15.8000	15.9260
Minor Diameter Max Value	14.9500	14.8250

Calibration Results of Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	15.8188	-
02	15.8185	-

Calibration Results of No-Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	15.9409	-
02	15.9406	-

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)

Authorized Signatory

