

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/22-23/8113-13

Format No. : VI-FRM-ME-041	ULR No.: CC247323100008288F	Report No: VI/22-23/8113-13
Customer Name and Address	M/s. MAG ENGINEERING Unit A., 46A, 3 rd Main, 2 nd Phase, Peenya, Bangalore, Karnataka - 560058.	
Customer Ref. No. and Date	DC NO: SAI/RGP 21-22/0351 & 28-02-2023	Received Condition
SRF NO	8113	Date of Receipt
		Satisfactory
		01-03-2023

CALIBRATED INSTRUMENT / EQUIPMENT DETAILS

Nomenclature	Thread Plug Gauge	Make	HIP
Size	M16-6H	Customer Instrument Reference No.	M040
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

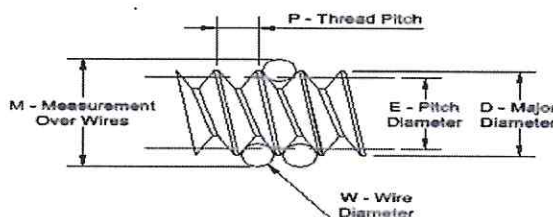
Nomenclature	Make	Range / Resolution	ID No.	Certificate No.	Traceable To	Validity
Universal Length Machine	Octagon	Upto300 mm / 0.1 μ m	VI-ME-015	VI/22-23/INT-ME-171-01	VI-Bangalore	08-04-2023

CALIBRATION PROCEDURE

Used Wire Size : 1.100 mm Measuring Method : Three Wire Method

Standard Used : Metric threads IS 4218-2001 & 2334-2001 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	16.0630	15.3340
Major Diameter Min Value	16.0020	15.3060
Effective Diameter Max Value	14.7240	14.9270
Effective Diameter Min Value	14.7100	14.9130
Effective Diameter Wear Limit	14.6960	14.9050
Minor Diameter Max Value	13.5463	13.5463

Calibration Results of Go side

Sl.no	Effective dia (mm)	Deviation (μ m)
01	14.7111	-
02	14.7108	-

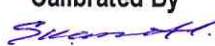
Calibration Results of No-Go side

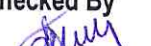
Sl.no	Effective dia (mm)	Deviation (μ m)
01	14.9191	-
02	14.9194	-

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)

