



COMMITTED TO THE
CUSTOMER SINCE - 1998

Vaidyanatheshwara INSTRUMENTS

CERTIFICATE OF CALIBRATION



No. 301/A, 9th Main Road, 3rd Cross, Rajy Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.
Ph : 080 23377266, Mob : 9906566789 / 9932221171 / 9964308118 | Email : info@vplgroup.com Web : www.vplgroup.com

NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Date of Issue: 20 - 03 - 2023

Sheet: 1 OF 1

Report No: VI/22-23/8525-18

Format No. : VI-FRM-ME-041	ULR No.: CC247323100010600F	Report No: VI/22-23/8525-18
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: SIA/RGP21-22/0305 & 13-03-2023	Received Condition
SRI NO	8525	Date of Receipt
		Satisfactory
		14-03-2023

CALIBRATED INSTRUMENT / EQUIPMENT DETAILS

Nomenclature	Thread Plug Gauge	Make	HIP
Size	M5-6H	Customer Instrument Reference No.	M020
Calibration Done At	VI Mechanical Lab	Temperature / Humidity	20.0 - 20.2°C 52% - 54% (RH)
Calibrated on	20 - 03 - 2023	Calibration due on	19 - 03 - 2024
Discipline	Mechanical (Dimensional)		

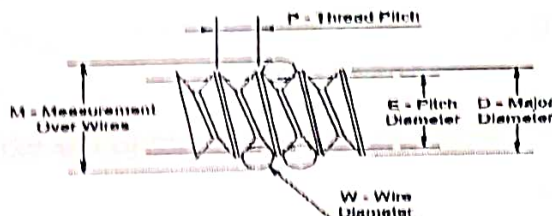
MASTER EQUIPMENT TRACEABILITY DETAILS

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

CALIBRATION PROCEDURE

Used Wire Size: 0.455 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	5.0150	4.7785
Major Diameter Min Value	4.9970	4.7605
Effective Diameter Max Value	4.4905	4.6140
Effective Diameter Min Value	4.4815	4.6050
Effective Diameter Wear Limit	4.4735	4.6000
Minor Diameter Max Value	4.0185	4.0185

Calibration Results of Go side

Sl. no	Effective dia (mm)	Deviation (µm)
01	4.4860	-
02	4.4863	-

Calibration Results of No-Go side

Sl. no	Effective dia (mm)	Deviation (µm)
01	4.6137	-
02	4.6134	-

Conclusion:

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



This report refers only to the item/gauge submitted and may not be reproduced except in full without written permission from Vaidyanatheshwara Instruments Bangalore - 560006.