

## 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.: CC247323100008289F Report No:VI/22-23/8113-14

Customer Name and Address M/s. MAG ENGINEERING Unit A.,  
46A, 3<sup>rd</sup> Main, 2<sup>nd</sup> 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	M24X3-6H	Customer Instrument Reference No.	F576/F590 / M125	
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

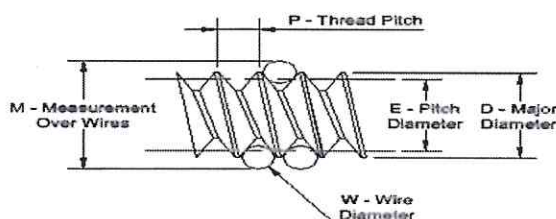
Nomenclature	Make	Range / Resolution	ID No.	Certificate No.	Traceable To	Validity
Universal Length Machine	Octagon	Upto300 mm / 0.1 µm	VI-ME-015	VI/22-23/INT-ME-171-01	VI-Bangalore	08-04-2023

### CALIBRATION PROCEDURE

Used Wire Size : 1.650 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	24.0300	22.9370
Major Diameter Min Value	24.0020	22.9090
Effective Diameter Max Value	22.0740	22.3300
Effective Diameter Min Value	22.0600	22.3160
Effective Diameter Wear Limit	22.0460	22.3080
Minor Diameter Max Value	20.3190	20.3190

### Calibration Results of Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	22.0649	-
02	22.0646	-

### Calibration Results of No-Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	22.3164	-
02	22.3161	-

### 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*  
Syed Sikander  
(Calibration Engineer)

Checked By  
*P. Santhosh Kumar*  
P. Santhosh Kumar  
(Lab-In Charge)

Authorized Signatory  
*P. Santhosh Kumar*  
P. Santhosh Kumar  
(Lab-In Charge)