

## 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: 20 - 03 - 2023  
Sheet: 1 OF 1

Report No: VI/22-23/8525-20

Format No. : VI-FRM-ME-041		ULR No.: CC247323100010602F		Report No: VI/22-23/8525-20	
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: SIA/RGP21-22/0365 & 13-03-2023		Received Condition	Satisfactory
SRF NO		8525		Date of Receipt	14-03-2023

### CALIBRATED INSTRUMENT / EQUIPMENT DETAILS

Nomenclature	Thread Plug Gauge	Make	MASTER METROLOGY	
Size	M12X1.75-6H	Customer Instrument Reference No.	C8992-D6773	
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)			

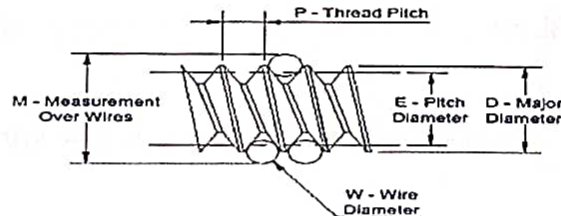
### MASTER EQUIPMENT TRACEABILITY DETAILS

Nomenclature	Make	Range / Resolution	ID No.	Certificate No.	Traceable To	Validity
Universal Length Machine	Octagon	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: 1.100 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	12.0230	11.4295
Major Diameter Min Value	12.0010	11.4075
Effective Diameter Max Value	10.8805	11.0740
Effective Diameter Min Value	10.8695	11.0630
Effective Diameter Wear Limit	10.8575	11.0570
Minor Diameter Max Value	9.8533	9.8533

### Calibration Results of Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	10.8699	-
02	10.8696	-

### Calibration Results of No-Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	11.0672	-
02	11.0675	-

### 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

*Syad Sikander*  
Syed Sikander  
(Calibration Engineer)

Checked By

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

