

## CERTIFICATE OF CALIBRATION



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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

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Report No: VI/22-23/8113-07

Format No. : VI-FRM-ME-041	ULR No.: CC247323100008282F	Report No: VI/22-23/8113-07
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
SRF NO	8113	Date of Receipt
		Satisfactory
		01-03-2023

### CALIBRATED INSTRUMENT / EQUIPMENT DETAILS

Nomenclature	Thread Plug Gauge	Make	BAKER
Size	M10-6H	Customer Instrument Reference No.	MS-12
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)		

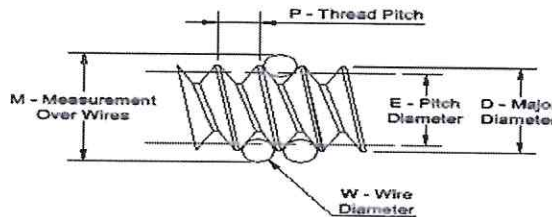
### MASTER EQUIPMENT TRACEABILITY DETAILS

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 : 0.895 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	10.0230	9.5225
Major Diameter Min Value	10.0010	9.5005
Effective Diameter Max Value	9.0435	9.2170
Effective Diameter Min Value	9.0325	9.2060
Effective Diameter Wear Limit	9.0205	9.2000
Minor Diameter Max Value	8.1595	8.1595

### Calibration Results of Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	9.0379	-
02	9.0382	-

### Calibration Results of No-Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	9.2066	-
02	9.2069	-

### 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)

