

## CERTIFICATE OF CALIBRATION



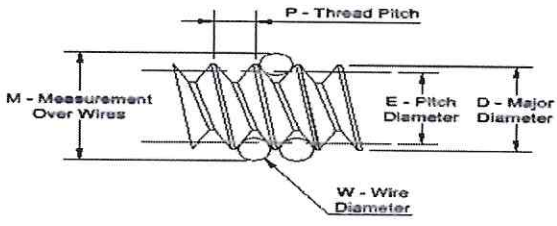
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NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Date of Issue: 04 - 03 - 2023

Sheet: 1 OF 1

Report No: VI/22-23/8113-09

Format No. : VI-FRM-ME-041		ULR No.: CC247323100008284F			
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
<b>CALIBRATED INSTRUMENT / EQUIPMENT DETAILS</b>					
Nomenclature	Thread Plug Gauge	Make	HIP		
Size	M12-6H	Customer Instrument Reference No.	M038		
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)				
<b>MASTER EQUIPMENT TRACEABILITY DETAILS</b>					
Nomenclature	Make	Range / Resolution	ID No.	Certificate No.	Traceable To
Universal Length Machine	Octagon	Upto300 mm / 0.1 µm	VI-ME-015	VI/22-23/INT-ME-171-01	VI-Bangalore
<b>CALIBRATION PROCEDURE</b>					
Used Wire Size : 1.100 mm			Measuring Method : Three Wire Method		
Standard Used : Metric threads IS 4218-2001 & 2334-2001			SOP NO:- 16-37		
<b>The Three Wire Method of Measuring Pitch Diameter</b>					
					
<b>Gauge Nominal Values AS PER IS STANDARD</b>					
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	10.8739	-
02	10.8736	-


### Calibration Results of No-Go side

Sl .no	Effective dia (mm)	Deviation (µm)
01	11.0669	-
02	11.0672	-

### 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)

