

CERTIFICATE OF CALIBRATION



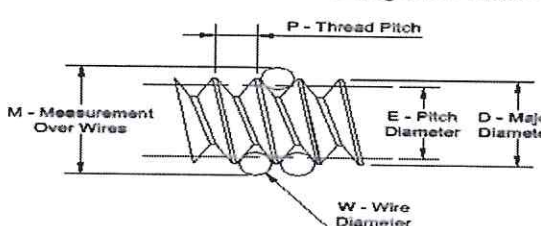
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NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Date of Issue: 04 - 03 - 2023

Sheet: 1 OF 1

Report No: VI/22-23/8113-12

Format No. : VI-FRM-ME-041		ULR No.: CC247323100008287F		Report No: VI/22-23/8113-12	
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: 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	M16X1.5-6H	Customer Instrument Reference No.	F2165/F2180 / M118		
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
Universal Length Machine	Octagon	Upto300 mm / 0.1 µm	VI-ME-015	VI/22-23/INT-ME-171-01	VI-Bangalore
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	16.0230		15.5325		
Major Diameter Min Value	16.0010		15.5105		
Effective Diameter Max Value	15.0435		15.2270		
Effective Diameter Min Value	15.0325		15.2160		
Effective Diameter Wear Limit	15.0205		15.2100		
Minor Diameter Max Value	14.1595		14.1595		

Calibration Results of Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	15.0344	-
02	15.0341	-

Calibration Results of No-Go side

Sl.no	Effective dia (mm)	Deviation (µm)
01	15.2195	-
02	15.2192	-

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)

