

CERTIFICATE OF CALIBRATION



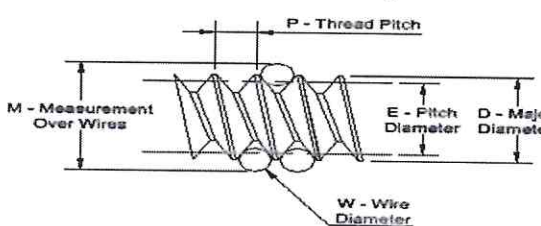
No. 301/A, 9th Main Road, 3rd Cross, Rajiv Gandhi Nagar, J.B. Kaval, Nandhini Layout Post, Bangalore - 560 096.
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NABL Accredited Calibration Lab as per ISO/IEC 17025 : 2017 With vide Certificate No: CC-2473

Date of Issue: 04 - 03 - 2023

Sheet: 1 OF 1

Report No: VI/22-23/8113-11

| | | | | | |
|--|--------------------------|--|--------------------------------------|------------------------|--------------|
| Format No. : VI-FRM-ME-041 | | ULR No.: CC247323100008286F | | | |
| 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 | Graphica | | |
| Size | M14X1.5-6H | Customer Instrument Reference No. | M117 | | |
| 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 | 14.0230 | | 13.5325 | | |
| Major Diameter Min Value | 14.0010 | | 13.5105 | | |
| Effective Diameter Max Value | 13.0435 | | 13.2270 | | |
| Effective Diameter Min Value | 13.0325 | | 13.2160 | | |
| Effective Diameter Wear Limit | 13.0205 | | 13.2100 | | |
| Minor Diameter Max Value | 12.1595 | | 12.1595 | | |

Calibration Results of Go side

| Sl.no | Effective dia (mm) | Deviation (µm) |
|-------|--------------------|----------------|
| 01 | 13.0405 | - |
| 02 | 13.0402 | - |

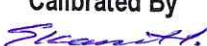
Calibration Results of No-Go side

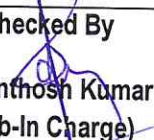
| Sl.no | Effective dia (mm) | Deviation (µm) |
|-------|--------------------|----------------|
| 01 | 13.2239 | - |
| 02 | 13.2236 | - |

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)

