

CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 136335003
Gauge application : Incoming inspection
Standard of thread : Metric ISO threads acc. to ISO 965:2013/ISO 1502:1996
Type of gauge : GO thread ring gauge (solid)
Thread designation : M 4x0.5-6e
Pitch : 0,5000 mm
Measuring method : "Three balls" method (using T-probe)
Used ball diameter : 0,2893 mm
Constant of T-shaped probe : 1,7641 mm
Measurement traceability : Mahr 828 ID 381
Measurement traceability : Set of setting rings ID 01-04150

Gauge nominal values

Major diameter min. : 3,9930 mm
Pitch diameter max. : 3,6320 mm
Pitch diameter min. : 3,6220 mm
Minor diameter max. : 3,4140 mm
Minor diameter min. : 3,4040 mm

Measuring values Pitch diameter

| Plane | Axial section | PitchØ [mm] | Out of tolerance [µm] |
|-------|---------------|-------------|-----------------------|
| 2 | 0 Degree | 3,6243 | - |

Valuation: usable

Operator:


 (Salvaggio)

Date: 18.05.2020

Uncertainty of measurement: $U = 2.5 \mu\text{m} + 10 \cdot 10^{-6} \cdot d$. The uncertainty stated is the expanded uncertainty of measurement obtained by multiplying the standard uncertainty by the coverage factor $k = 2$. They were established according to DAkkS-DKD-3. The value of the measured variable is within the assigned value range with 95 % probability.
Ref. temp: $(20 \pm 1) ^\circ\text{C}$. **Inspection requirement:** The inspections procedure was based on recognised German inspection specifications (VDI/VDE/DGQ/2618). The measuring equipment and standards used are compared regularly with reference standards calibrated by a calibration service accredited by the European Cooperation for Accreditation (EA) and therefore traceable to the national standards of the PTB. Hence the inspection certificate complies with the traceability requirements of DIN EN ISO 9001.