

CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 113168001
Gauge application : Incoming inspection
Standard of thread : Metric ISO threads acc. to ISO 965:1998/ISO 1502:1996
Type of gauge : GO thread ring gauge (solid)
Thread designation : M 4.5x0.5-6g
Pitch : 0,5000 mm
Measuring method : "Three balls" method (using T-probe)
Used ball diameter : 0,2939 mm
Constant of T-shaped probe : 1,7688 mm
Measurement traceability : Mahr 828 ID 381
Measurement traceability : Gauge block set ID 3997 57308 D-K-15190-01-00 2015-06

Gauge nominal values

Major diameter min. : 4,5230 mm
 Pitch diameter max. : 4,1620 mm
 Pitch diameter min. : 4,1520 mm
 Minor diameter max. : 3,9440 mm
 Minor diameter min. : 3,9340 mm

Measuring values Pitch diameter

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	4,1589	-

Valuation: usable

Operator:  Date: 20.06.2018
 (Salvaggio)

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.