



CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 147271001
Gauge application : Incoming inspection
Standard of thread : Metric ISO threads acc. to ISO 965:2013/ISO 1502:1996
Type of gauge : GO thread plug gauge
Thread designation : M 42x4.5-6H
Pitch : 4,5000 mm
Measuring method : Three wires method
Wire diameter : 2,5502 mm
Measuring force : 9,90 N
Measurement traceability : Mahr 828 Nr.31
Measurement traceability : single gauge ID 316275 014252 D-K-15048-01-00 2019-03

Gauge nominal values

Major diameter max. : 42,0300 mm
 Major diameter min. : 42,0020 mm
 Pitch diameter max. : 39,1000 mm
 Pitch diameter min. : 39,0860 mm
 Minor diameter max. : 36,4790 mm

Measuring values Pitch diameter

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	39,0950	-

Valuation: usable

Operator:

(Buckenmayer)

Date: 12.04.2021

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.