



CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 137627001
Gauge application : Incoming inspection
Standard of thread : Unified threads acc. to ANSI/ASME B1.1-1989(R2001), B1.2
Type of gauge : NOGO thread plug gauge
Thread designation : 1 7/8 - 12 UN -2B
Pitch : 2,1170 mm
Measuring method : Three wires method
Wire diameter : 1,1558 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. : 47,3659 mm
 Major diameter min. : 47,3507 mm
 Pitch diameter max. : 46,4490 mm
 Pitch diameter min. : 46,4388 mm
 Minor diameter max. : 45,0647 mm

Measuring values Pitch diameter

| Plane | Axial section | PitchØ [mm] | Out of tolerance [µm] |
|-------|---------------|-------------|-----------------------|
| 2 | 0 Degree | 46,4464 | - |

Valuation: usable

Operator:


(Sahan-Bitzer)

Date: 19.10.2020

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.