

CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 154137070
Gauge application : Incoming inspection
Standard of thread : Unified threads acc. to ANSI/ASME B1.1-1989(R2001), B1.2
Type of gauge : GO/NOT GO thread plug gauge
Thread designation : 9/16 - 18 UNF -2B
Pitch : 1,4110 mm
Measuring method : Three wires method
Wire diameter : 0,8662 mm
second wire diameter : 0,8662 mm
Measuring force : 9,10 N
Measurement traceability : Mahr 828 Nr.31
Measurement traceability : Parallelendmaß Nr.314950 033421 D-K-15048-01-00 2020-06

| Gauge nominal values | Go side | Not Go side |
|----------------------|--------------|-------------|
| Major diameter max. | : 14,3002 mm | 14,1326 mm |
| Major diameter min. | : 14,2875 mm | 14,1199 mm |
| Pitch diameter max. | : 13,3782 mm | 13,5204 mm |
| Pitch diameter min. | : 13,3706 mm | 13,5128 mm |
| Minor diameter max. | : 12,4536 mm | 12,5959 mm |

Measuring values Pitch diameter - Go side


| Plane | Axial section | PitchØ [mm] | Out of tolerance [µm] |
|-------|---------------|-------------|-----------------------|
| 2 | 0 Degree | 13,3752 | - |

Measuring values Pitch diameter - Not go side

| Plane | Axial section | PitchØ [mm] | Out of tolerance [µm] |
|-------|---------------|-------------|-----------------------|
| 2 | 0 Degree | 13,5176 | - |

Valuation: usable

Operator:


(Eisele)

Date: 22.09.2021

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.