

CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 130831006
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 : 7/16 - 20 UNF -2B
Pitch : 1,2700 mm
Measuring method : Three wires method
Wire diameter : 0,7250 mm
second wire diameter : 0,7250 mm
Measuring force : 4,00 N
Measurement traceability : Mahr 828 Nr.22
Measurement traceability : Endmaßsatz Nr.3997 57308 D-K-15190-01-00 2015-06

Gauge nominal values	Go side	Not Go side
Major diameter max.	: 11,1252 mm	10,9753 mm
Major diameter min.	: 11,1125 mm	10,9626 mm
Pitch diameter max.	: 10,2946 mm	10,4242 mm
Pitch diameter min.	: 10,2870 mm	10,4165 mm
Minor diameter max.	: 9,4615 mm	9,5910 mm

Measuring values Pitch diameter - Go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	10,2889	-

Measuring values Pitch diameter - Not go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	10,4174	-

Valuation: usable

Operator: A. Eicde
(Eha)

Date: 06.03.2020

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.