



CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 164099001
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 : 13/16 - 16 UN -2B DLC
Pitch : 1,5880 mm
Measuring method : Three wires method
Wire diameter : 0,8942 mm
second wire diameter : 0,8942 mm
Measuring force : 4,50 N
Measurement traceability : Zeiss ULM 600-C Nr.439
Measurement traceability : single gauge ID 316275 033416 D-K-15048-01-00 2020-06

Gauge nominal values	Go side	Not Go side
Major diameter max.	: 20,6527 mm	20,4546 mm
Major diameter min.	: 20,6375 mm	20,4394 mm
Pitch diameter max.	: 19,6139 mm	19,7663 mm
Pitch diameter min.	: 19,6063 mm	19,7587 mm
Minor diameter max.	: 18,5750 mm	18,7274 mm

Measuring values Pitch diameter - Go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	19,6133	-

Measuring values Pitch diameter - Not go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	19,7643	-

Valuation: usable

Operator: Sahan Bitzer
(Sahan-Bitzer)

Date: 16.12.2020

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.