

CALIBRATION CERTIFICATE

Customer : 0155600
 Identification number : 114421001
 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 : 0.19000 - 56 UNS -2B
 Pitch : 0,4540 mm
 Measuring method : Three wires method
 Wire diameter : 0,2600 mm
 second wire diameter : 0,2600 mm
 Measuring force : 4,80 N
 Measurement traceability : Zeiss ULM 600-C Nr.439
 Measurement traceability : Gauge block set ID 3997 57308 D-K-15190-01-00 2015-06

Gauge nominal values	Go side	Not Go side
Major diameter max.	: 4,8362 mm	4,8082 mm
Major diameter min.	: 4,8260 mm	4,7981 mm
Pitch diameter max.	: 4,5364 mm	4,6126 mm
Pitch diameter min.	: 4,5314 mm	4,6076 mm
Minor diameter max.	: 4,2367 mm	4,3129 mm

Measuring values Pitch diameter - Go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	4,5336	-

Measuring values Pitch diameter - Not go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	4,6086	-

Valuation: usable

Operator:

E. A. L.
(Eisele)

Date: 03.06.2019

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 ± 1) °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.