



CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 130516033
Gauge application : Incoming inspection
Standard of thread : Pipe threads according to ISO 228:2003
Type of gauge : NOGO thread plug gauge
Thread designation : G 1 1/2
Pitch : 2,3090 mm
Measuring method : Three wires method
Wire diameter : 1,3023 mm
Measuring force : 4,50 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

Major diameter max. : 46,9840 mm
Major diameter min. : 46,9600 mm
Pitch diameter max. : 46,5160 mm
Pitch diameter min. : 46,5040 mm
Minor diameter max. : 44,6650 mm

Measuring values Pitch diameter

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	46,5121	-

Valuation: usable

Operator:

IAL
(Hogg)

Date: 08.10.2019

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.