



## CALIBRATION CERTIFICATE

**Customer** : 0155600  
**Identification number** : 130516051  
**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	46,5127	-

**Valuation: usable**

Operator:

  
(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 DAKS-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.