

## CALIBRATION CERTIFICATE

**Customer** : 0155600  
**Identification number** : 101792004  
**Gauge application** : Incoming inspection  
**Standard of thread** : ASA B2.2-1960 (NPTF, PTF)  
**Type of gauge** : Taper full form thread plug gauge  
**Thread designation** : 1 - 11 1/2 NPTF L1  
**Pitch** : 2,2090 mm  
**Measuring method** : Measure with IAC Master Scanner  
**Measurement traceability** : IAC MSXP 100x60 Nr.507  
**Measurement traceability** : Gauge block set ID 3997 57308 D-K-15190-01-00 2015-06

### Gauge nominal values

**Major diameter max.** : 32,4910 mm  
**Major diameter min.** : 32,4660 mm  
**Pitch diameter max.** : 31,4688 mm  
**Pitch diameter min.** : 31,4536 mm  
**Minor diameter max.** : 29,7250 mm  
**Length L1** : 10,1600 mm  
**Gauge plane** : 10,1600 mm

### Measuring values Pitch diameter

Gauge plane IAC [mm]	Axial section	PitchØ [mm]	Out of tolerance [mm]
10,1600	0° Degree	31,4615	-

**Valuation: usable**

Operator:  Date: 19.09.2017  
 (Buckenmayer)

**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.