

CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 102703076
Gauge application : Incoming inspection
Standard of thread : Pipe threads acc. to ANSI/ASME B1.20.1-2013 (NPT)
Type of gauge : Taper full form thread plug gauge
Thread designation : 1 - 11 1/2 NPT
Pitch : 2,2088 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. : 32,9324 mm
Major diameter min. : 32,9070 mm
Pitch diameter max. : 31,4688 mm
Pitch diameter min. : 31,4536 mm
Minor diameter max. : 29,8708 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	31,4602	-

Valuation: usable

Operator:  Date: 14.02.2018
(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.