

## CALIBRATION CERTIFICATE

**Customer** : 0155600  
**Identification number** : 133743007  
**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** : 1 5/16 - 12 UN -2B  
**Pitch** : 2,1170 mm  
**Measuring method** : Three wires method  
**Wire diameter** : 1,1553 mm  
**second wire diameter** : 1,1553 mm  
**Measuring force** : 4,50 N  
**Measurement traceability** : Zeiss ULM 600-C Nr.439  
**Measurement traceability** : single gauge ID 316275 014252 D-K-15048-01-00 2019-03

Gauge nominal values	Go side	Not Go side
Major diameter max.	: 33,3527 mm	33,0708 mm
Major diameter min.	: 33,3375 mm	33,0556 mm
Pitch diameter max.	: 31,9710 mm	32,1539 mm
Pitch diameter min.	: 31,9634 mm	32,1462 mm
Minor diameter max.	: 30,5892 mm	30,7721 mm

### Measuring values Pitch diameter - Go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	31,9672	-

### Measuring values Pitch diameter - Not go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	32,1512	-

Valuation: usable

Operator: JA Eisele  
(Stark)

Date: 06.02.2020

**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.