

## CALIBRATION CERTIFICATE

**Customer** : 0155600  
**Identification number** : 111724015  
**Gauge application** : Incoming inspection  
**Standard of thread** : Metric ISO threads acc. to ISO 965:1998/ISO 1502:1996  
**Type of gauge** : NO GO thread ring gauge (solid)  
**Thread designation** : M 20x1.5-6e  
**Pitch** : 1,5000 mm  
**Measuring method** : Measure with IAC Master Scanner  
**Measurement traceability** : IAC XLP-C 300 Nr.579  
**Measurement traceability** : Set of setting rings ID 8138 101590 D-K-15089-01-01 2016-09

### Gauge nominal values

**Major diameter min.** : 19,9440 mm  
**Pitch diameter max.** : 18,8190 mm  
**Pitch diameter min.** : 18,8010 mm  
**Minor diameter max.** : 18,5280 mm  
**Minor diameter min.** : 18,4920 mm

### Measuring values Pitch diameter

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	18,8124	-

Valuation: usable

Operator:  (Buckenmayer) Date: 10.10.2018

**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.