

## CALIBRATION CERTIFICATE

**Customer** : 0155600  
**Identification number** : 136540010  
**Gauge application** : Incoming inspection  
**Standard of thread** : Metric ISO threads acc. to ISO 965:2013/ISO 1502:1996  
**Type of gauge** : GO/NOT GO thread plug gauge  
**Thread designation** : M 18x1-6H  
**Pitch** : 1,0000 mm  
**Measuring method** : Three wires method  
**Wire diameter** : 0,5766 mm  
**second wire diameter** : 0,5766 mm  
**Measuring force** : 4,10 N  
**Measurement traceability** : Mahr 828 Nr.31  
**Measurement traceability** : single gauge ID 316275 033416 D-K-15048-01-00 2020-06

Gauge nominal values	Go side	Not Go side
Major diameter max.	: 18,0230 mm	17,7265 mm
Major diameter min.	: 18,0010 mm	17,7045 mm
Pitch diameter max.	: 17,3675 mm	17,5210 mm
Pitch diameter min.	: 17,3565 mm	17,5100 mm
Minor diameter max.	: 16,7730 mm	16,7730 mm

### Measuring values Pitch diameter - Go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	17,3646	-

### Measuring values Pitch diameter - Not go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	17,5162	-

Valuation: usable

Operator:  Date: 08.01.2021  
(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.