

## CALIBRATION CERTIFICATE

Customer : 0155600  
 Identification number : 130582142  
 Gauge application : Incoming inspection  
 Standard of thread : Metric ISO threads acc. to ISO 965:1998/ISO 1502:1996  
 Type of gauge : GO/NOT GO thread plug gauge  
 Thread designation : M 12x1.5-6H  
 Pitch : 1,5000 mm  
 Measuring method : Three wires method  
 Wire diameter : 0,8662 mm  
 second wire diameter : 0,8662 mm  
 Measuring force : 9,60 N  
 Measurement traceability : Mahr 828 Nr.22  
 Measurement traceability : Gauge block set ID 3997 57308 D-K-15190-01-00 2015-06

Gauge nominal values	Go side	Not Go side
Major diameter max.	: 12,0230 mm	11,5325 mm
Major diameter min.	: 12,0010 mm	11,5105 mm
Pitch diameter max.	: 11,0435 mm	11,2270 mm
Pitch diameter min.	: 11,0325 mm	11,2160 mm
Minor diameter max.	: 10,1590 mm	10,1590 mm

### Measuring values Pitch diameter - Go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	11,0371	-

### Measuring values Pitch diameter - Not go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	11,2214	-

Valuation: usable

Operator:

  
(Stark)

Date: 06.11.2019

**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.