

## CALIBRATION CERTIFICATE

**Customer** : 0155600  
**Identification number** : 136593002  
**Gauge application** : Incoming inspection  
**Standard of thread** : Metric ISO threads acc. to ISO 965:2013/ISO 1502:1996  
**Type of gauge** : NOGO thread plug gauge  
**Thread designation** : M 68x1.5-6H  
**Pitch** : 1,5000 mm  
**Measuring method** : Three wires method  
**Wire diameter** : 0,8658 mm  
**Measuring force** : 9,90 N  
**Measurement traceability** : Mahr 828 Nr.31  
**Measurement traceability** : single gauge ID 316275 014252 D-K-15048-01-00 2019-03

**Gauge nominal values**

Major diameter max. : 67,5590 mm  
Major diameter min. : 67,5310 mm  
Pitch diameter max. : 67,2520 mm  
Pitch diameter min. : 67,2380 mm  
Minor diameter max. : 66,1590 mm

**Measuring values Pitch diameter**

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	67,2465	-

**Valuation: usable**

Operator: JA Esde  
(Ammann)

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:**  $(20 \pm 1) ^\circ\text{C}$ . **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.