



CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 122046221
Gauge application : Incoming inspection
Standard of thread : Pipe threads according to ISO 228:2003
Type of gauge : GO/NOT GO thread plug gauge
Thread designation : G 1/4
Pitch : 1,3370 mm
Measuring method : Three wires method
Wire diameter : 0,7252 mm
second wire diameter : 0,7252 mm
Measuring force : 4,50 N
Measurement traceability : Zeiss ULM 600-C Nr.439
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. | : 13,1720 mm | 12,7080 mm |
| Major diameter min. | : 13,1520 mm | 12,6880 mm |
| Pitch diameter max. | : 12,3140 mm | 12,4360 mm |
| Pitch diameter min. | : 12,3040 mm | 12,4260 mm |
| Minor diameter max. | : 11,4450 mm | 11,3200 mm |

Measuring values Pitch diameter - Go side

| Plane | Axial section | PitchØ [mm] | Out of tolerance [µm] |
|-------|---------------|-------------|-----------------------|
| 2 | 0 Degree | 12,3089 | - |

Measuring values Pitch diameter - Not go side

| Plane | Axial section | PitchØ [mm] | Out of tolerance [µm] |
|-------|---------------|-------------|-----------------------|
| 2 | 0 Degree | 12,4315 | - |

Valuation: usable

Operator:  Date: 26.06.2019

(Eisele)

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.