



CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 118342148
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 3/8
Pitch : 1,3370 mm
Measuring method : Three wires method
Wire diameter : 0,7252 mm
second wire diameter : 0,7252 mm
Measuring force : 4,80 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.	: 16,6770 mm	16,2130 mm
Major diameter min.	: 16,6570 mm	16,1930 mm
Pitch diameter max.	: 15,8190 mm	15,9410 mm
Pitch diameter min.	: 15,8090 mm	15,9310 mm
Minor diameter max.	: 14,9500 mm	14,8250 mm

Measuring values Pitch diameter - Go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	15,8120	-

Measuring values Pitch diameter - Not go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	15,9359	-

Valuation: usable

Operator: Eisele
(Eisele)

Date: 20.03.2020

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/2518). 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.