

CALIBRATION CERTIFICATE

Customer : 0155600
Identification number : 109931002
Gauge application : Incoming inspection
Standard of thread : Cyl. pipe threads "NPSM" acc. to ANSI/ASME B1.20.1-2013
Type of gauge : GO thread ring gauge (solid)
Thread designation : 1/4 - 18 NPSM-2A
Pitch : 1,4110 mm
Measuring method : "Three balls" method (using T-probe)
Used ball diameter : 0,8000 mm
Constant of T-shaped probe : 5,0693 mm
Measurement traceability : Mahr 828 ID 381
Measurement traceability : Gauge block set ID 3997 57308 D-K-15190-01-00 2015-06

Gauge nominal values

Major diameter min. : 13,3604 mm
Pitch diameter max. : 12,4536 mm
Pitch diameter min. : 12,4460 mm
Minor diameter max. : 11,8425 mm
Minor diameter min. : 11,8298 mm

Measuring values Pitch diameter

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	12,4474	-

Valuation: usable

Operator:


(Salvaggio)

Date: 20.09.2019

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 ± 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.