



CALIBRATION CERTIFICATE

Customer : 0155600
 Identification number : 21103004
 Gauge application : Incoming inspection
 Standard of thread : Trapezoidal threads acc. to DIN 103:1997
 Type of gauge : GO / NO GO thread plug gauge
 Thread designation: : Tr12x3-7H
 Pitch: : 3,0000 mm
 Measuring method: : Three wires method
 Used wire diameter: : 1,5530 mm
 Measuring force: : 10,0 N

Gauge nominal values	GO side	NO GO side
External diameter - max. value	: 12,0430 mm	11,4300 mm
External diameter - min. value	: 12,0030 mm	11,3900 mm
Effective diameter - max. value	: 10,5330 mm	10,8200 mm
Effective diameter - min. value	: 10,5130 mm	10,8000 mm
Minor diameter - max. value	: 8,5000 mm	8,5000 mm

Measuring values of Effective diameter - GO side

Meas. plane No.	Meas. value No.	Effective diameter [mm]	Out of tolerance [μm]
1	1	10,5265	-

Measuring values of Effective diameter - NO GO side

Measuring plane No.	Meas. value No.	Effective diameter [{Einheit}]	Out of tolerance [μm]
1	1	10,8156	-

Valuation: in tolerance

Operator:  (Clemens) Inspection date: 15.06.2010

measuring accuracy: U95 = 2.5 μm ; **Ref.temp.** [deg C°]: 20; **Measuring machine:** MAHR 828 Nr.19372; MAHR 828 Nr. 38013; Zeiss ULM 01-600C Nr.6908; IAC Master Scanner MSXP 6025 Nr.101064; IAC Master Scanner MSXP 10060 Nr.100971; **reference standard:** Setting ring gauge Ø20 342-DKD-K-14201-05-07; Parallel gauge block: 10mm 5328-DKD-K-17301-2005-07; **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 Co-operation 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 9000:2000, section 7.6.

*Physikalisch Technische Bundesanstalt (Federal Physical and Technical Institute)

