



CALIBRATION CERTIFICATE

Customer : 0155600
 Identification number : 21073001
 Gauge application : Incoming inspection
 Standard of thread : Metrical threads according DIN ISO 1502 (DIN 13)
 Type of gauge : solid NO GO thread ring gauge
 Thread designation: : M 40x0.5-6g
 Pitch: : 0,5000 mm
 Measuring method: : "Three balls" method (using T-probe)
 Used ball diameter: : 0,2912 mm
 Constant of T-shaped probe : 1,7739 mm

Gauge nominal values

External diameter min. value : 39,9890 mm
 Effective diameter - min. value : 39,5460 mm
 Effective diameter - max. value : 39,5600 mm
 Minor diameter - min. value : 39,4390 mm
 Minor diameter - max. value : 39,4670 mm

Measuring values of Effective diameter

Meas. plane No.	Meas. value No.	Effective diameter [mm]	Out of tolerance [μm]
1	1	39,5506	-

Valuation: in tolerance

Operator: 
 (Clemens) Inspection date: 12.03.2010

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 \varnothing 20 342-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)

