



CALIBRATION CERTIFICATE

(Inspection certificate 3.1 e.g. EN 10204)

Customer : 0155600
 Identification number : 138480
 Gauge application : Incoming inspection
 Standard of thread : Unified insert thread acc. to factory standard
 Type of gauge : GO / NOGO thread plug gauge
 Thread designation: : EG 3/8-24 UNF -2B
 Pitch: : 1,0580 mm
 Measuring method: : Three wires method
 Used wire diameter: : 0,6200 mm
 Measuring force: : 3,90 N

Gauge nominal values	GO side	NO GO side
External diameter - max. value	: 10,9130 mm	10,5350 mm
External diameter - min. value	: 10,8950 mm	10,5170 mm
Effective diameter - max. value	: 10,2215 mm	10,3195 mm
Effective diameter - min. value	: 10,2125 mm	10,3105 mm
Minor diameter - max. value	: 9,4900 mm	9,5880 mm

Measuring values of Effective diameter - GO side

Meas. plane No.	Meas. valueNo.	Effective diameter [mm]	Out of tolerance [μ m]
1	0°	10,2197	-
2	0°	10,2194	-
3	0°	10,2189	-
2	90°	10,2193	-

Measuring values of Major diameter - GO side

Meas. plane No.	Meas. valueNo.	Major diameter [mm]	Out of tolerance [μ m]
2	0°	10,9038	-

Measuring values of Effective diameter - NO GO side

Meas. plane No.	Meas. valueNo.	Effective diameter [mm]	Out of tolerance [μ m]
1	0°	10,3184	-
2	0°	10,3185	-
3	0°	10,3187	-
2	90°	10,3185	-

Measuring values of Major diameter - NO GO side

Meas. plane No.	Meas. valueNo.	Meas. diameter [mm]	Out of tolerance [μ m]
2	0°	10,5285	-

Valuation: usable

Operator:  Inspection date: 27.10.2015
 (Buckenmayer)

measuring accuracy: $U_{95} = 2,5 \mu\text{m} + 1,4 \cdot 10^{-6} \cdot l$; Ref.temp. [deg C°]: 20; Measuring machine: MAHR 828 Nr.19372; MAHR 828 Nr. 38013; Zeiss ULM 01-600C Nr.6908; IAC Master Scanner XP 10025 Nr.103374-1; IAC Master Scanner XP 16060 Nr.103374-2; reference standard: Setting ring gauge $\varnothing 20$ 640-DKD-K-14201-10-12; Parallel gauge block: 10mm 25994-DKD-K-17301-2010-12; 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 9001, section 7.6.
 *Physikalisch Technische Bundesanstalt (Federal Physical and Technical Institute)