

## CALIBRATION CERTIFICATE

Customer

: 0155600

Identification number

128855010

Gauge application

: Incoming inspection

Standard of thread

: Metric ISO threads acc. to ISO 965:2013/ISO 1502:1996

Type of gauge

GO/NOT GO thread plug gauge

Thread designation

: M 31x1-6H

Pitch

1,0000 mm

Measuring method Wire diameter

Three wires method

second wire diameter

0,5768 mm

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0,5768 mm

Measuring force

: 4,10 N

Measurement traceability

Mahr 828 Nr.31

Measurement traceability

: Parallelendmaß Nr. 316275 014252 D-K-15048-01-00 2019-03

Gauge nominal values		Go side	Not Go side
Major diameter max.	:	31,0230 mm	30.7365 mm
Major diameter min.		31,0010 mm	30,7145 mm
Pitch diameter max.	:	30,3675 mm	30,5310 mm
Pitch diameter min.	:	30,3565 mm	30,5200 mm
Minor diameter max.	;	29,7730 mm	29,7730 mm

Measuring values Pitch diameter - Go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	30,3646	-

Measuring values Pitch diameter - Not go side

Plane	Axial section	PitchØ [mm]	Out of tolerance [µm]
2	0 Degree	30,5228	-

Valuation: usable

Operator:

Date: 20.08.2020

Uncertainty of measurement: U = 2.5 µm + 10 • 10<sup>-6</sup> • 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 Eropean Cooperation for Accreditation (EA) and therefore traceable to the national standards of the PTB. Hence the inspection certificate complies with the tracebility requirements of DIN EN ISO 9001.