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4 Design characteristics

4.1 General

The general design and workmanship shall be such that the performance of the dial gauge complies with the requirements of this International Standard unless otherwise specified by the manufacturer.

The design and rigidity of the dial gauge shall be such that the freedom of movement of the plunger is not impaired by clamping the stem of the instrument, providing that such clamping is applied to the minimum extent necessary to achieve a stable mounting. Where alternative methods of mounting are used, e.g. attaching the lug on the back plate, the design and rigidity of that mounting shall be such that the performance is not impaired.

4.2 Dimensions

The dial gauge shall conform to the dimensions specified in Figures 1, 2 and Table 1 to ensure interchangeability.

Table 1 — Main dimensions

Values in millimetres

Size classification	Bezel diameter D_1				
	30	40	60	80	100
Range of bezel diameter D_1^a	28 to 36	37 to 50	51 to 70	71 to 89	90 to 115
Stem diameter D_2	8 h6	8 h6	8 h6	8 h6	8 h6
Contact element outside diameter D_3	$\leq 7,5$	$\leq 7,5$	$\leq 7,5$	$\leq 7,5$	$\leq 7,5$
Thread size D_4	M2,5-6H	M2,5-6H	M2,5-6H	M2,5-6H	M2,5-6H
Thread size D_5	M2,5-6g	M2,5-6g	M2,5-6g	M2,5-6g	M2,5-6g
Clamp diameter D_6^b	28 h6	28 h6	28 h6	28 h6	28 h6
Stem length L_1	$\geq 8,5$	≥ 10	≥ 12	$\geq 15,5$	$\geq 9,5$
Length L_2^c	≤ 12	≤ 28	≤ 34	d	d
Thread length L_3	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
Thread length L_4	≥ 6	≥ 6	≥ 6	≥ 6	≥ 6
Contact distance, centreline to back, L_5	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10

^a Actual bezel diameter equals width.
^b The clamp diameter D_6 is optional.
^c Plunger pressed in.
^d Depending on the measuring range.

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... by the metrological organizations and international associations that have made the ... 1.2.1 Implications in Standard Specifications The general and intrinsic ... requirements of the ISO 14253-17 that says how to correctly respect tolerance. ... http://www.bipm.org/utis/common/documents/jcgm/JCGM_100_2008_E.pdf 6 ...

Lawrence Livermore National Lab. e-reports-ext.llnl.gov/pdf/197002.pdf. CGPM. ... International Organisation for Standardization. ISO ... ISO 14253-1:2013. limitations of the Standard ISO decisional rules, so to provide clear indication in the ... In Proceedings of the 10th International Measurement Confederation TC7 ... EN ISO 14253-1: Geometrical Product Specifications (GPS) –Part 1-Decision rules ... Retrieved from http://www.ifcc.org/pdf/latestnews/jcgm_100_2008_2010.pdf International. Technical. Standards. CEN/TR 15350 (2013) Mechanical vibration ... EN 14253 (2003) Mechanical vibration – Measurement and evaluation of ... ISO 10326-1 (2016) Mechanical vibration – Laboratory method for evaluating vehicle ... pdf EC (2007) Non binding guide to good practice for implementing Directive ...

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