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International

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Vacuum gauges — Calibration by direct comparison with a reference gauge

Manomètres — Étalonnage par comparaison directe avec un manomètre de référence

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This document was prepared by Technical Committee ISO/TC 112, *Vacuum technology*.

This second edition cancels and replaces the first edition (ISO 3567:2011) which has been technically revised.

The main changes are as follows:

— Clause 1, scope modified;

— Clause 3, terms added;

— Subclause 6.2.1, requirements for tubing modified;

— Subclause 6.2.4, requirement for leak testing added;

— Subclause 6.3.2, recommendation to use turbomolecular pump added for the stationary equilibrium method;

— Subclause 6.3.4, requirements for the vacuum gauge to measure base pressure clarified;

— Subclause 6.6, requirements for the reference gauge modified;

— Subclause 7.1.5, recommended pressure ranges for static method and stationary equilibrium method added;

— Subclause 7.1.8, requirements for repeated calibration added;

— Clause 8, items in calibration certificate modified.

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The document aims to establish the physical, technical and metrological conditions necessary for adequately disseminating the pressure scale in the vacuum regime by calibration with a reference gauge. It is assumed that users are familiar with the general procedures of vacuum generation and measurement in the vacuum ranges considered.

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