International Standard

ISO 14960-2

Tubeless tyres — Valves and components —

Part 2: Clamp-in tubeless tyre valve — Test methods

Pneumatiques sans chambre — Valves et composants —

Partie 2: Méthodes d'essai pour les valves à visser

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 9, *Valves for tube and tubeless tyres*.

This second edition cancels and replaces the first edition (ISO 14960-2:2014), which has been technically revised.

The main changes are as follows:

— all test methods have been revised;

— terms and definitions have been added (Clause 3);

— test fixture and valve hole dimensions Clause has been added (Clause 4);

— leakage test method has been added (5.2);

— radial force resistance test has been added (5.6.3);

— clauses and subclauses have been renumbered as necessary.

A list of all parts in the ISO 14960 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Tubeless tyres — Valves and components —

Part 2:
Clamp-in tubeless tyre valve — Test methods

1 Scope

This document specifies test methods for clamp-in tubeless tyre valves.

These methods are defined to determine the minimum level of performance requested.

This document applies to the tyre valve assembled on the rim hole with diameter of 11,3 mm for passenger cars or for light duty vehicles.

This document does not include tyre pressure monitoring system (TPMS) valves.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3877-2, *Tyres, valves and tubes — List of equivalent terms — Part 2: Tyre valves*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

ISO 9413, *Tyre valves — Dimensions and designation*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 3877-2, ISO 9413 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
clamp-in valve
type of valve for tubeless tyre, designed to be used with a valve core, a cap, an O-ring or a rubber grommet and to be fixed with a hexagonal nut and potentially a ring washer

3.2
valve assembly
clamp-in valve (3.1) (with a valve core, a cap, a nut, an O-ring or a rubber grommet and potentially a washer) fixed on the test fixture

4 Test fixture and valve hole dimensions

For each test, the material and the test fixture should be representative of the actual rim.

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