भारतीय मानक **IS/ISO 18885-1 : 2017**

Indian Standard

टीपीएमएस स्नैप इन वाल्व

भाग 1 पहचान

TPMS Snap-In Valves

Part 1 Identification

ICS 83.160.01

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Automotive Tyres, Tubes and Rims Sectional Committee, TED 07

NATIONAL FOREWORD

This Indian Standard, which is identical with ISO 18885-1 : 2017 ‘TPMS Snap-In Valves — Part 1: Identification’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards after the draft finalized by the Automotive Tyres, Tubes and Rims Sectional Committee had been approved by Transport Engineering Division Council.

The text of ISO Standard has been approved for publication as an Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. The Bureau of Indian Standards shall not be held responsible for identifying any or all such patent rights.

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TPMS SNAP-IN VALVES
PART 1 IDENTIFICATION

1 Scope

This document defines the characteristics of the tyre pressure monitoring system (TPMS) snap-in valve. Methods for identification and traceability of the valve are recommended. These parameters are defined to facilitate the snap-in valve TPMS application and identification in different countries.

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.

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

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

3.1
identifier bead
raised positive protrusion on the rubber part of weather/external side of the valve

3.2
snap-in valve
tyre valve having a metal inner insert adhered to a resilient elastomeric body designed to retain and seal the valve in the valve hole of the rim

3.3
stem
metallic part of the valve (usually in brass material) designed to be matched with inner core, cap and usually TPMS sensor

3.4
tyre pressure monitoring system (direct)
TPMS
system fitted on a vehicle, able to perform a function to evaluate the inflation pressure of the tyres or the variation of this inflation pressure over time and to transmit corresponding information to the user while the vehicle is running

Note 1 to entry: For the purposes of this document the sensible part of the system is mounted on the tyre valve.

3.5
traceability
alphanumeric code referring to production or assembly date

4 Identification

4.1 Visible identification from tire external side

One of the following identification methods in Figures 1, 2 and 3 below is recommended. More than one or all identification methods can be used.

A raised identifier bead is on the rubber part of the valve (circular on Figure 1 or longitudinal on Figure 2).

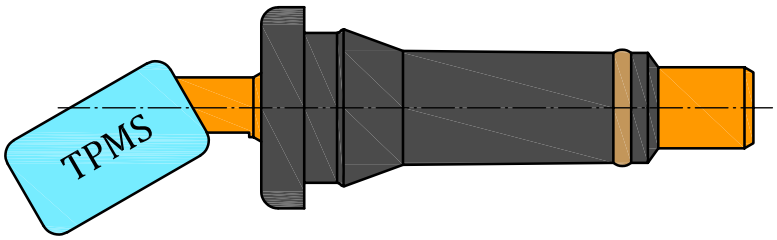


Figure 1 — Example of raised circular bead

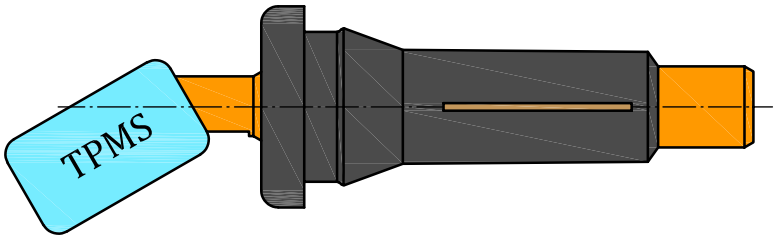


Figure 2 — Example of raised longitudinal bead

The use of an extended brass shoulder for TPMS identification is in the market but not recommended for a new product.

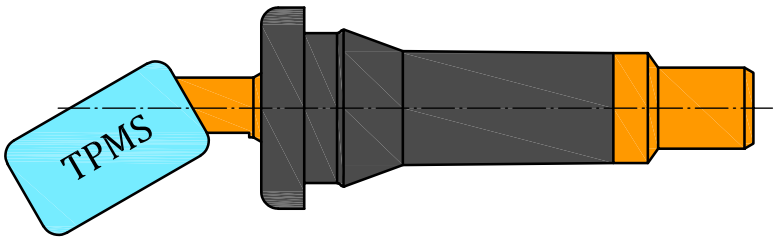
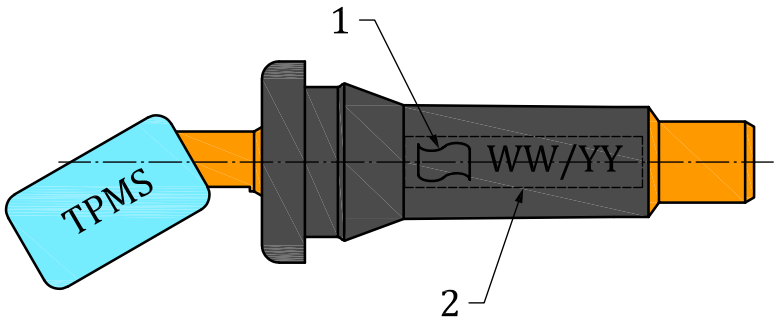


Figure 3 — Example of identification with extended brass shoulder

4.2 Traceability

It is recommended to have production date information marked on the valve, visible on the brass or on the rubber part of the valve, preferably on the external/weather side of the valve (Figure 4), e.g. day/year, week/year, month/year. Any logo on the valve is optional.



Key

1 optional logo

2 example for marking zone and data

Figure 4 — Example for production date code

4.3 Visible identification on the valve

The letters “TPMS” should be added on the bottom of the valve. A minimum height of 1,5 mm for the letters is recommended.

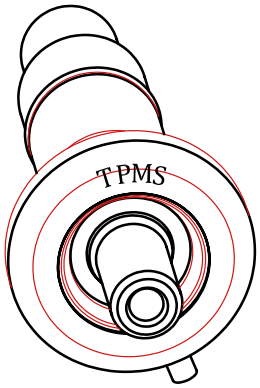


Figure 5 — Identification on the valve

The name or logo of the valve manufacturer should be added on the valve body on the internal or external side.

Bibliography

[1] ISO 9413, *Tyre valves — Dimensions and designation*

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

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act*, 2016 to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

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Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the website-www.bis.gov.in or www.standardsbis.in.

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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