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Valves for tubeless tyres and valves for tubes — Identification system for valves and their components

Valves pour pneumatiques sans chambre et valves pour chambres à air — Système d'identification des valves et de leurs composants

Reference number
ISO 10475:1992(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10475 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Sub-Committee SC 9, *Valves for tube and tubeless tyres*.

Annex A of this International Standard is for information only.

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Valves for tubeless tyres and valves for tubes — Identification system for valves and their components

1 Scope

This International Standard establishes

— a system for identifying valves for tubeless tyres and valves for tubes,

— a system for identifying the valve components.

NOTE 1 Terminology used in this International Standard is in accordance with ISO 3877-2:1978, *Tyres, valves and tubes — List of equivalent terms — Part 2: Tyre valves.*

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 4570-1:1977, *Tyre valve threads — Part 1: Threads 5V1, 5V2, 6V1 and 8V1.*

ISO 4570-2:1979, *Tyre valve threads — Part 2: Threads 9V1, 10V2, 12V1, 13V1.*

3 Identification systems

3.1 Identification of valves

A valve is identified by a four-character code: two letters followed by two digits.

3.1.1 The letters (family code) define a family of valves and are associated with the valve technical characteristics.

The first letter corresponds to the valve mouth thread diameter and to the valve shape. It shall be as specified in table 1.

The second letter corresponds to the rim hole diameter for the appropriate valve. It shall be as specified in table 2.

EXAMPLES

1 The family code of a straight valve for a tube, the mouth of which has a 5V1 thread and the rim hole a diameter of 8,3 mm, is AB.

2 The family code of a valve for a tube with one bend, the mouth of which has an 8V1 thread and the rim hole a diameter of 14,2 mm, is DH.

3 The family code of a valve with one bend for a tubeless tyre, the mouth of which has a 12V1 thread and the rim hole a diameter of 11,3 mm, is JQ.

4 The family code of a sub-assembly with more than three bends, the mouth of which has a 12V1 thread, to be mounted in a valve, is MZ.

3.1.2 The two digits represent the serial number of the valve under consideration in the series of valves of the same family. This serial number is allocated to each valve, and will be defined in a future International Standard [1].

Table 1 — Family code — First code letter

Designation	Mouth thread[1)]	Shape[2)]	Code letter
Valve	5V1, 5V2	DR	A
		—	B
	8V1	DR	C
		1C	D
		2C	E
		3C	F
		MC	G
	12V1	DR	H
		1C	J
		2C	K
		3C	L
		MC	M
Spud	—	—	Z

1) See ISO 4570-1 and ISO 4570-2.

2) DR: straight

1C: with one bend

2C: with two bends

3C: with three bends

MC: with more than three bends

Table 2 — Family code — Second code letter

Designation	Type	Diameter of rim hole mm	Code letter
Valve or valve assembly	with tube	6,2	A
		8,3	B
		8,8	C
		9,7	D
		10,2	E
		11,3	F
		12,5	G
		14,2 15	H
		15,7	J
		19	K
		20,5	L
	tubeless	8,3	M
		8,8	N
		9,7	P
		11,3	Q
		15,7	R
		20,5	S
Sub-assembly for mounting in valve body		—	Z

3.2 Identification of valve components

A valve component is identified by a three-character code: a letter followed by two digits.

3.2.1 The letter corresponds to the component nature. It shall be as specified in table 3.

Table 3 — Code letter to define type of component

Component	Code
Gasket	A
Grommet	B
O-ring	C
Washer	D
Hex nut	E
Knurled nut	F
Screw	G
Core	H
Cap	I
Tube-type spud	J
Tubeless spud	K
...	...
Miscellaneous	Z

3.2.2 The two digits represent the serial number of the component considered in the series of components of the same nature. This serial number is allocated to each component, and will be defined in a future International Standard.

4 General principles

4.1 The four-character code allocated to a valve corresponds to a valve with cap, core and any other components. The three-character code allocated to components shall appear neither in the designation nor in the marking of a valve.

The composition of a complete valve will be defined in a future International Standard, which will also indicate any requirements as to the use of specific types of cores and cap.

4.2 When two analogous valves are not totally interchangeable, for example because they require rim valve holes with different specifications (even if of the same diameter), the two valves shall be considered different.

4.3 Valves which may be used indifferently for tubeless tyres and for tubes shall be identified as valves for tubeless tyres.

Annex A
(informative)

Bibliography

[1] ISO 9413:—[1], *Valves for tubeless tyres and valves for tubes — Dimensions.*

1) To be published.

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