
**Road vehicles — Thermoplastics tubing for
air braking systems —**

**Part 1:
Dimensions and marking**

*Véhicules routiers — Tuyauteries thermoplastiques pour dispositifs de
freinage pneumatique —*

Partie 1: Dimensions et marquage



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 7628-1 was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 2, *Braking systems and equipment*.

This second edition cancels and replaces the first edition (ISO 7628-1:1985), which has been technically revised.

ISO 7628 consists of the following parts, under the general title *Road vehicles — Thermoplastics tubing for air braking systems*:

- *Part 1: Dimensions and marking*
- *Part 2: Mounting on vehicles and test methods*

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Road vehicles — Thermoplastics tubing for air braking systems —

Part 1: Dimensions and marking

1 Scope

This part of ISO 7628 specifies the dimensions and marking for thermoplastics tubing for use in air braking systems on road vehicles.

The tubing defined in this part of ISO 7628 belongs to two possible categories:

- tubing for use up to a maximum working pressure of 1 000 kPa¹;
- tubing for use up to a maximum working pressure of 1 250 kPa¹;

and within a temperature range of – 40 °C ²) to + 100 °C.

Coiled tubing for use between tractors and trailers is not covered by this part of ISO 7628.

ISO 7628-2 deals with installation on the vehicle and test requirements.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 7628. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 7628 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 1043 (all parts), *Plastics — Symbols and abbreviated terms*.

ISO 7628-2:1998, *Road vehicles — Thermoplastics tubing for air braking systems — Part 2: Mounting on vehicle and test methods*.

¹) 1 kPa = 10⁻² bar

²) Reduction of the lower temperature limit will be considered for a future revision of this part of ISO 7628.

3 Dimensions

Tubing shall have the dimensions given in table 1.

Table 1 — Dimensions

Dimensions in millimetres

Outside diameter	4	6	8	12	16
Tolerance	± 0,1	± 0,1	± 0,1	± 0,15	± 0,15
Inside diameter	2	4	6	9	12
Tolerance	± 0,1	± 0,1	± 0,1	± 0,10	± 0,15
Minimum wall thickness, e min.	0,9	0,9	0,9	1,35	1,8

4 Marking

Tubings that conform to both ISO 7628-2 and this part of ISO 7628 shall be indelibly marked along a generating line with letters of a minimum height of 2 mm and repeated at least every 350 mm as follows:

- ISO 7628;
- tubing category, i.e. either 1 000 kPa or 1 250 kPa;
- outside diameter;
- symbol for the material type, in accordance with ISO 1043;
- manufacturer designation;
- date code of manufacture.

These six indications shall be separated from each other with slashes.