



Caravans and light trailers — Couplings for vacuum braking systems — Dimensional characteristics

Caravanes et remorques légères — Accouplements pour systèmes de freinage à dépression — Caractéristiques dimensionnelles

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Descriptors : trailers, couplings, braking, dimensions.

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 3162 was drawn up by Technical Committee ISO/TC 22, *Road vehicles*, and circulated to the Member Bodies in February 1973.

It has been approved by the Member Bodies of the following countries :

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The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

- United Kingdom
- U.S.A.

Caravans and light trailers – Couplings for vacuum braking systems – Dimensional characteristics

1 SCOPE

This International Standard specifies the dimensional characteristics of the coupling device used for vacuum braking systems for caravans and light trailers in conformity with ISO 2890.

2 FIELD OF APPLICATION

This International Standard applies to caravans and light trailers with a total laden mass less than or equal to 3,5 tonnes.¹⁾ It concerns vacuum braking equipment with one or two vacuum lines, one for service braking, the other for replenishing of the vacuum reservoir on the trailer.

3 REFERENCES

ISO 1103, *Caravans and light trailers – Coupling ball.*²⁾

ISO 2890, *Caravans and light trailers – Vacuum brakes.*³⁾

4 DIMENSIONS OF COUPLING DEVICE

This International Standard specifies only the main dimensions of the "male" coupling (see figure 2). The "female" coupling design is left to the manufacturer provided the whole device satisfies the requirements of clause 6.

5 LOCATION OF COUPLINGS ON THE TOWING VEHICLE

The couplings on the towing vehicle shall be placed as shown in figure 1.

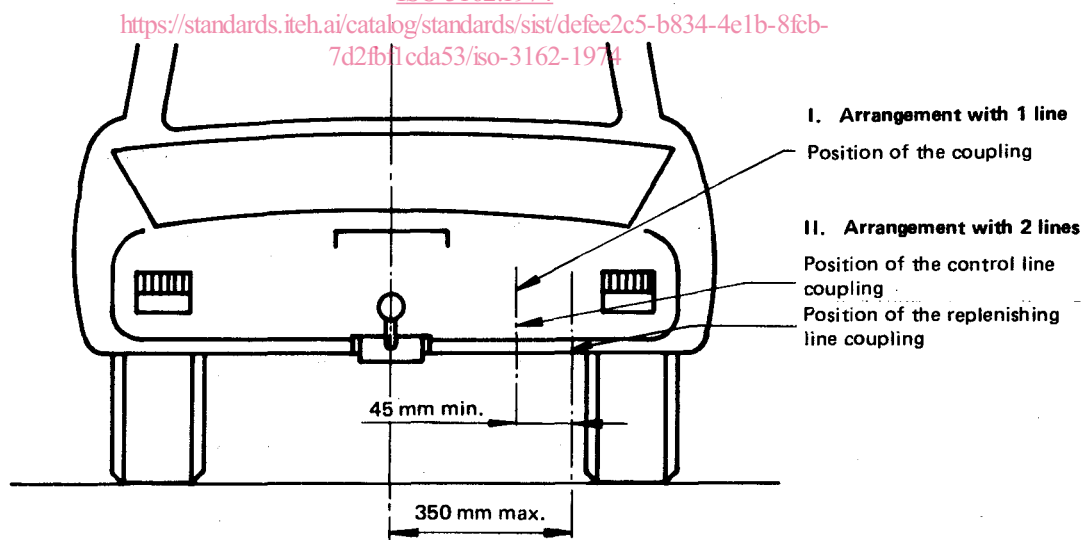


FIGURE 1 – Location of couplings

1) This value is chosen to include categories 01 and 02 of trailers according to the classification of vehicles given in document E/ECE/324-Rev. 1/Add. 12 of the Economic Commission for Europe of the United Nations.

This document is entitled : Agreement concerning the adoption of uniform conditions of approval and reciprocal recognition of approval for motor vehicle equipment and parts – done at Geneva on 20 March 1958 – Addendum 12 : Regulation No. 13 to be annexed to the Agreement : Uniform provisions concerning the approval of vehicles with regard to braking.

2) At present at the stage of draft. (Revision of ISO/R 1103.)

3) At present at the stage of draft.

6 REQUIREMENTS

6.1 Interchangeability of the couplings

The control line coupling and the replenishing line coupling shall not be interchangeable. The "female" coupling shall be mounted on the towing vehicle and be equipped with an automatic isolating device.

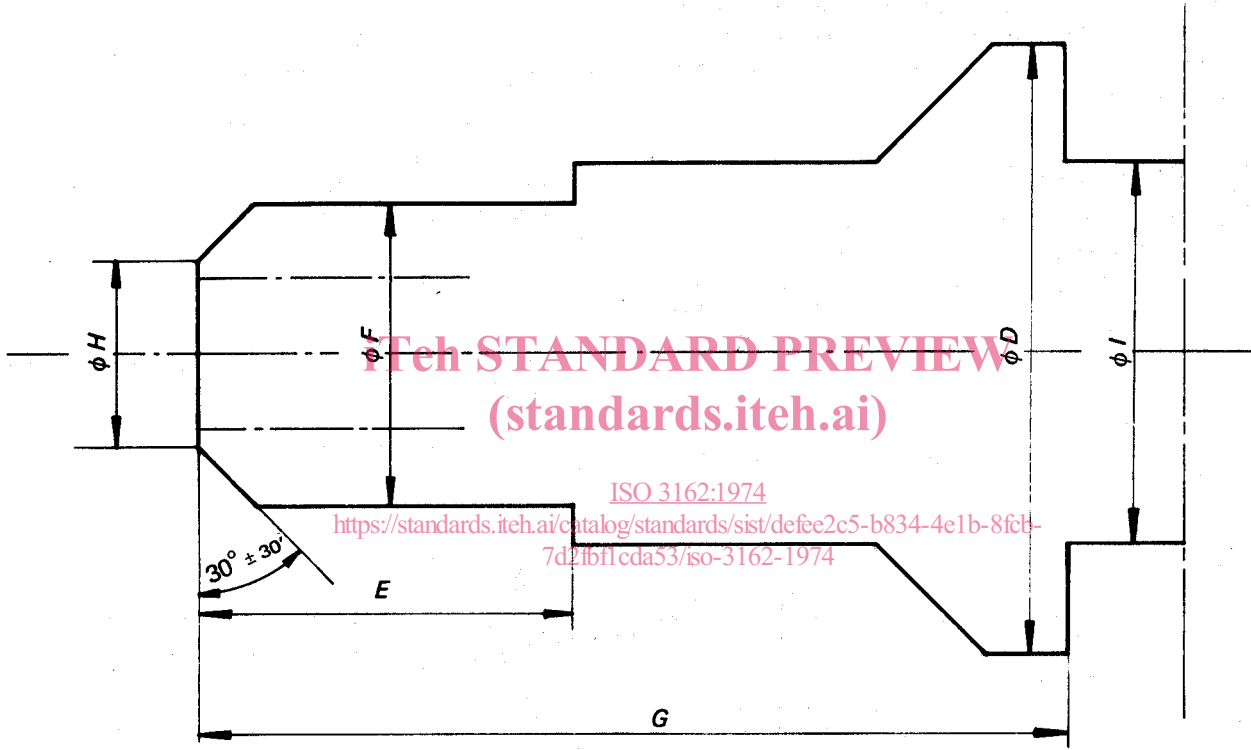
6.2 Dimensions of the couplings

The coupling device shall be so designed that no part of it is situated within the clearance space around the coupling ball as defined in ISO 1103.

6.3 Connection hose(s)

6.3.1 The length(s) of the flexible hose(s) on the trailer shall be such as to allow articulation of the towing vehicle and trailer within the limits of 60° on either side of the longitudinal median plane of the vehicle, without imposing a tensile load on the coupling heads.

6.3.2 Under no circumstances in the coupled position shall the hose(s) be able to touch the ground.



Values in millimetres

Dimension	Couplings	
	control	replenishment
F d11	18	16
H ± 1	12	10
E min.	20	25
G $+0,5$ 0	59,5	64,5
D ± 1	36	36
I max.	20	20

FIGURE 2 — Dimensions of male couplings