
International Standard



8755

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Commercial road vehicles — Mechanical connections between towing vehicles and trailers — 40 mm drawbar coupling

Véhicules routiers utilitaires — Liaisons mécaniques entre véhicules tracteurs et remorques — Dispositifs d'attelage de 40 mm

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Foreword

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International Standard ISO 8755 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

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Commercial road vehicles — Mechanical connections between towing vehicles and trailers — 40 mm drawbar coupling

1 Scope and field of application

This International Standard specifies the essential dimensions of a 40 mm drawbar coupling and a 40 mm drawbar eye to permit interchangeability between towing vehicles and trailers equipped with these connections.

These mechanical connections are not interchangeable with the 50 mm couplings specified in ISO 1102.

This International Standard applies to mechanical connections designed for commercial vehicles and trailers, the maximum total mass of which is above 3,5 t.

NOTE — Terms relating to drawbar couplings are illustrated in the annex (figures 6, 7 and 8) in order to avoid misunderstandings.

2 Reference

ISO 3584, *Road vehicles — Mounting of mechanical coupling devices on rear cross members of trucks.*

3 Interchangeability dimensions

The following specifications are set to ensure interchangeability:

- drawbar eye (see 3.1);
- travel angles of the drawbar coupling (see 3.2).

NOTES

- 1 Dimensions for mounting of drawbar couplings on the rear cross members of towing vehicles are given in ISO 3584.
- 2 Dimensions to ensure operating clearance between towing vehicles and trailers will form the subject of a future International Standard.

3.1 Drawbar eye

The dimensional data of the drawbar eye ensuring interchangeability are given in figure 1. (Details not specified are left to the manufacturer's choice.)

The use of a sleeve is recommended to minimize damage to the inside of the eye, the sleeve being easily replaced when worn out.

Dimensions of the fitted sleeve are specified in figure 2. Installation of a non-slotted sleeve shall be such that it does not work loose during service.

3.2 Travel angles of the drawbar coupling

The drawbar coupling tested separately, i.e. not mounted on the towing vehicle, shall be designed so that it allows for the travel angles specified in figures 3, 4 and 5, when the drawbar is fixed to the drawbar coupling.

Dimensions in millimetres

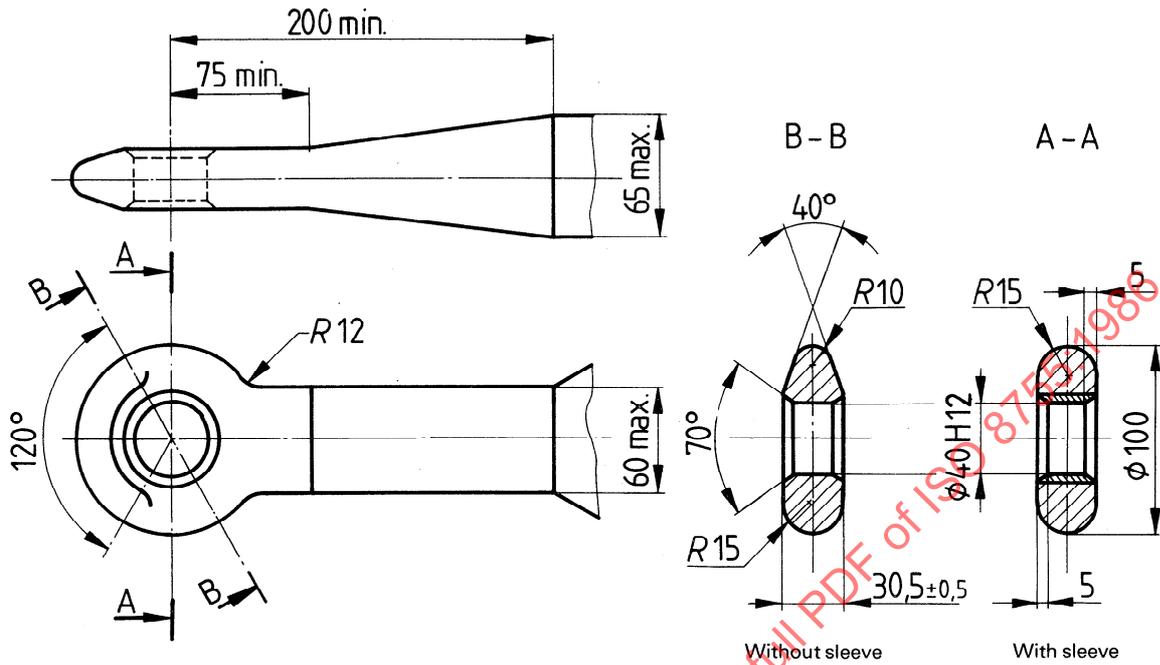
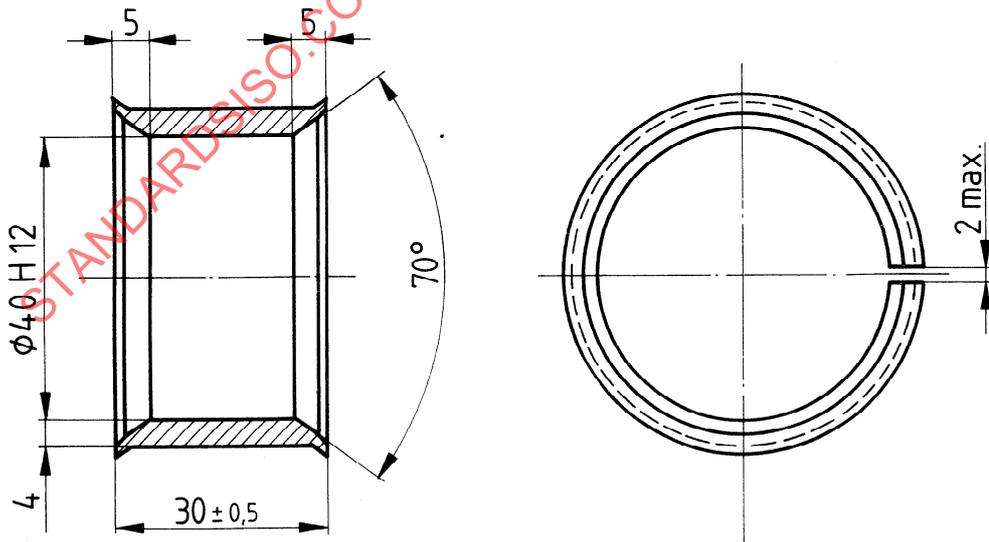


Figure 1 — 40 mm drawbar eye

Dimensions in millimetres



NOTE — Slotted sleeves should be inserted such that the slot is to the rear, at 45° to the drawbar longitudinal axis.

Figure 2 — Sleeve

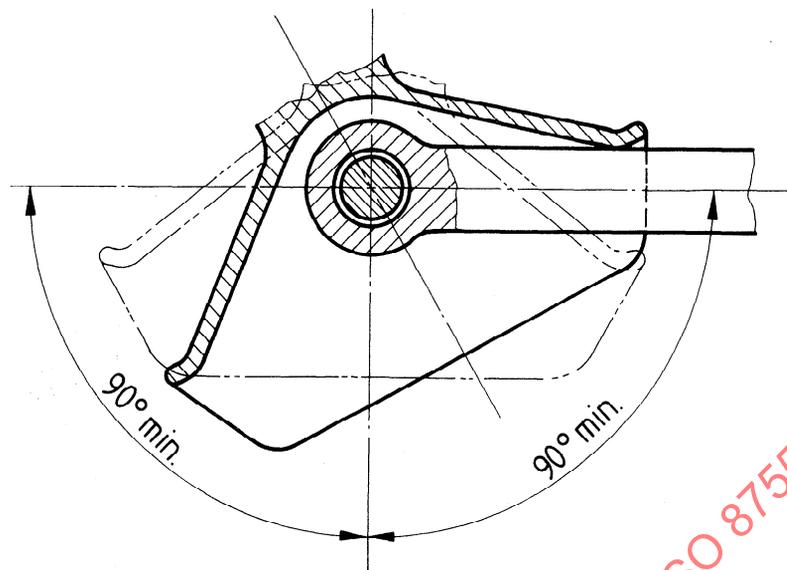


Figure 3 – Horizontal angle

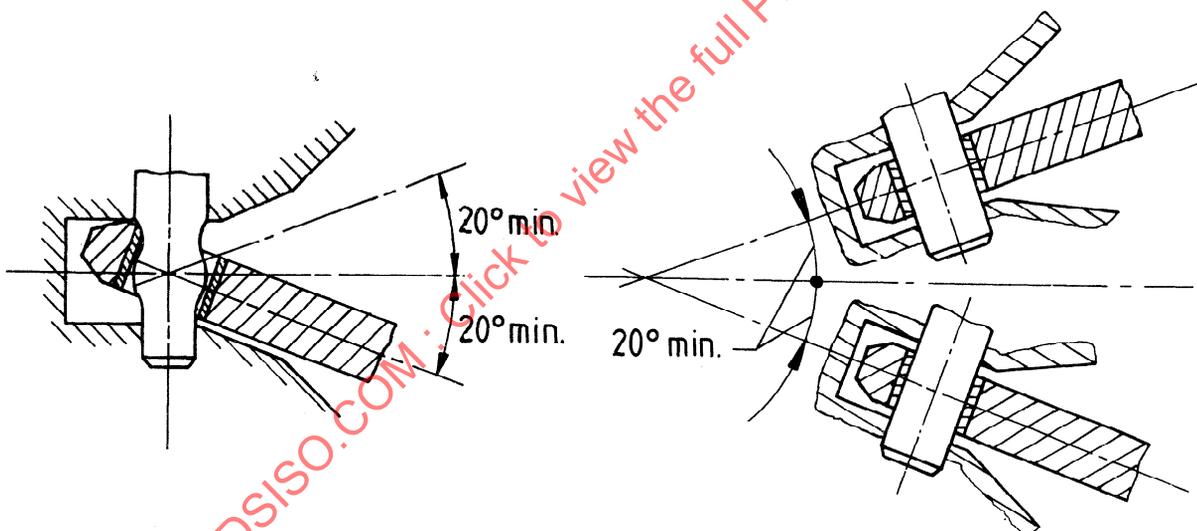


Figure 4 – Vertical angle

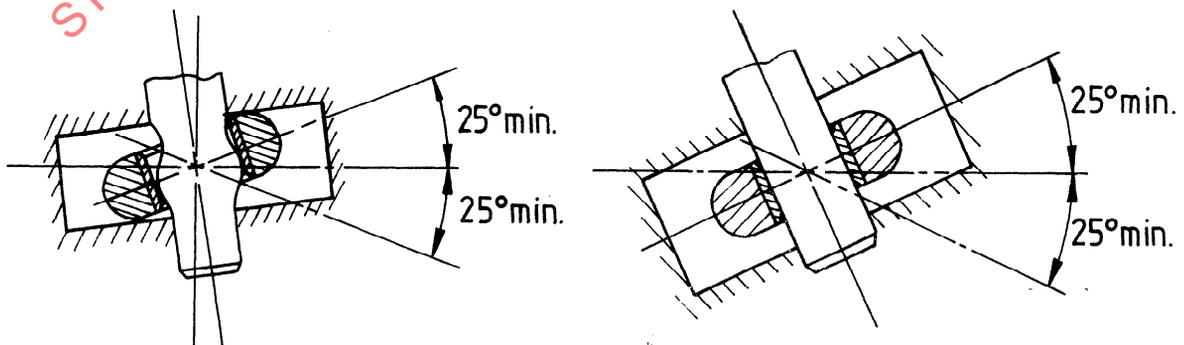


Figure 5 – Rotation angle

Annex

Drawbar coupling terminology

(This annex forms an integral part of the Standard.)

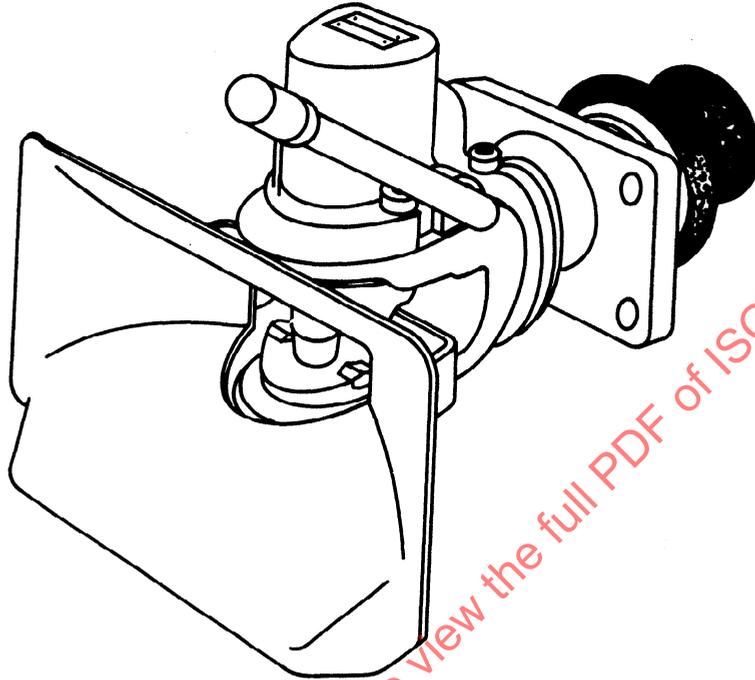


Figure 6 — Drawbar coupling

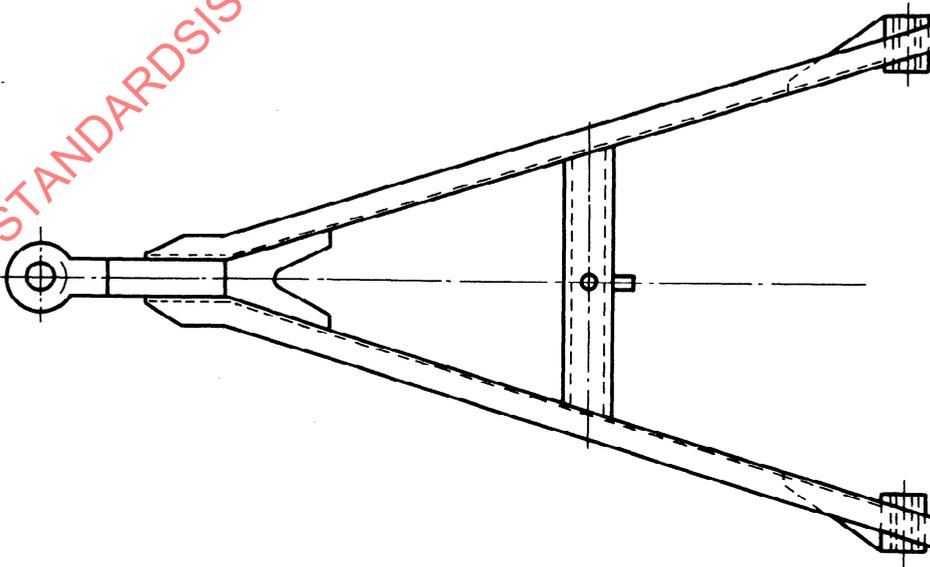


Figure 7 — Drawbar