

International Standard



7638

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Road vehicles — Brake anti-lock device connector

Véhicules routiers — Prise pour dispositif d'antiblocage du frein

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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.

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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7638 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

Road vehicles — Brake anti-lock device connector

1 Scope and field of application

This International Standard specifies the dimensional and electrical characteristics required for interchangeability of electrical connections for brake anti-lock devices between towing and towed vehicles of road trains. Performance requirements and test methods are also specified to ensure transmission reliability of signals and orders.

2 References

ISO 611, *Braking of automotive vehicles and their trailers — Vocabulary*.

ISO 3768, *Metallic coatings — Neutral salt spray test (NSS test)*.

IEC Publication 529, *Classification of degrees of protection provided by enclosures*.

3 Definitions

3.1 anti-lock device: (See ISO 611.)

3.2 park socket: A socket to store the plug and cable out of the way when the vehicle is disconnected.

3.3 ejector: A part of the socket (but not of the park socket) provided to disengage the plug automatically, if the locking device is not operative.

4 Dimensions

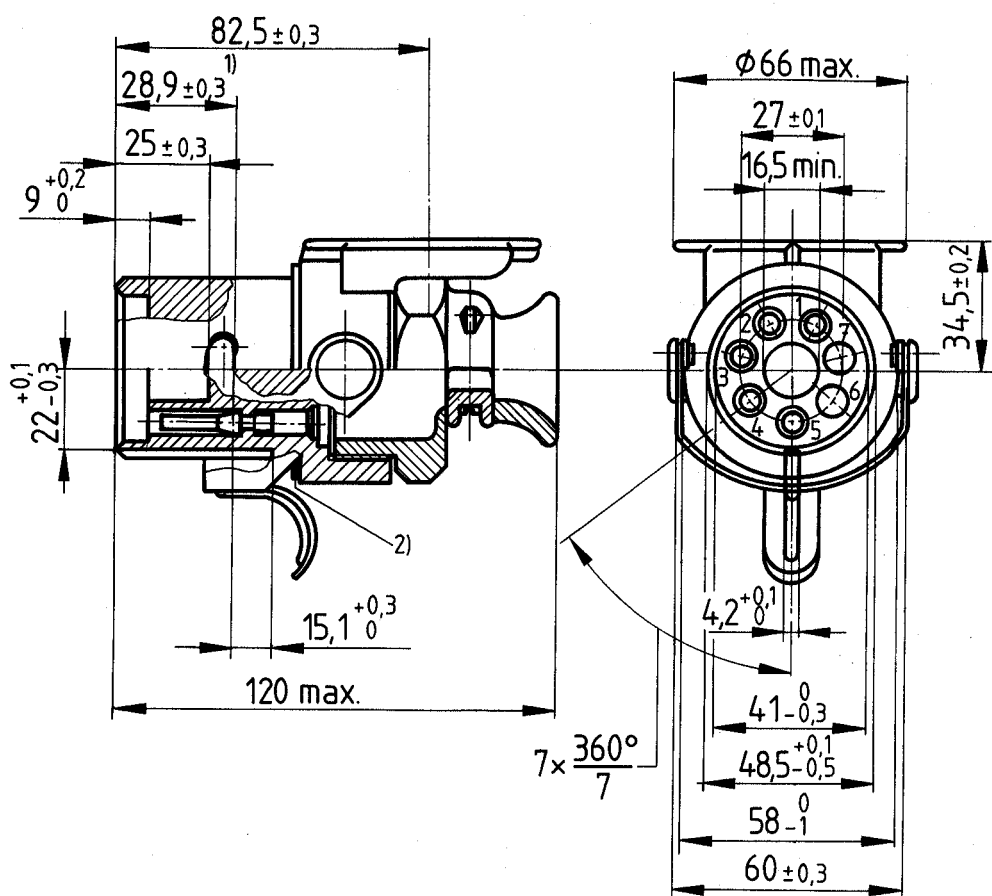
The plug, socket and park socket shall have the following dimensions. Dimensions not specified are left to the manufacturer's discretion.

NOTE — Figures 1 and 2 show positions for seven tubes and pins respectively, although the text refers to five. See note 2) to table 1.

4.1 Plug

The plug has five tubes for contacts 1 to 5.

Dimensions in millimetres



- 1) Critical dimension for internal gasket.
- 2) The gasket shall be mounted such that it cannot become detached under normal use.

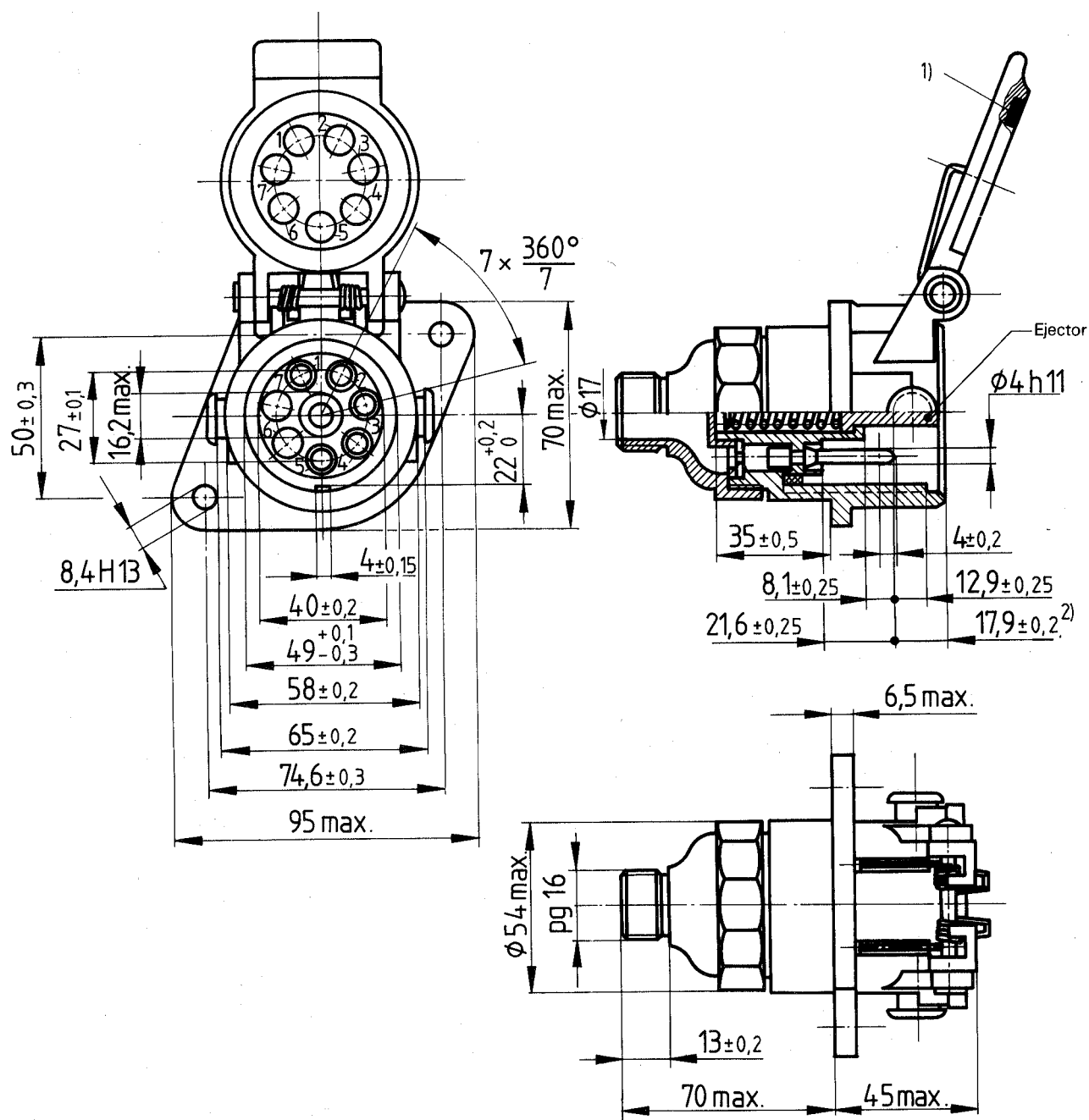
Figure 1 — Plug

4.2 Socket

The socket has five pins for contacts 1 to 5.

The cover is drawn in the open position : it shall close automatically when disconnecting the plug. Its opening angle shall be 120° min.

Dimensions in millimetres



- 1) The gasket shall be mounted such that it cannot become detached under normal use.
- 2) Critical dimension for the external gasket.

Figure 2 — Socket