



International
Standard

ISO 22760-9

**Road vehicles — Dimethyl ether
(DME) fuel system components —**

Part 9:

Pressure relief device (PRD)

*Véhicules routiers — Composants des systèmes de combustible
Diméthyle Ether (DME) —*

Partie 9: Dispositif de limitation de pression

**First edition
2024-05**

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Published in Switzerland

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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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html

This document was prepared by Technical Committee ISO/TC 22, *Road Vehicles*, Subcommittee SC 41, *Specific aspects for gaseous fuels*.

A list of all parts of the ISO 22760 series of international standards can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Road vehicles — Dimethyl ether (DME) fuel system components —

Part 9: Pressure relief device (PRD)

1 Scope

This document specifies definitions of and general requirements to a pressure relief device for limiting internal pressure of dimethyl (DME) fuel containers intended for use on the types of motor vehicles as defined in ISO 3833. It also provides general design principles and specifies requirements for instructions and marking.

This document is applicable to vehicles using gaseous fuels in accordance with ISO 16861. It is not applicable to the following:

- a) fuel containers for any application other than as noted above;
- b) stationary, ship, railroad vehicle or aircraft DME engine installations;
- c) fuel container mounting hardware;
- d) electronic fuel management.

NOTE 1 It is recognized that miscellaneous component properties not specifically addressed herein can be examined for compliance with the criteria of any applicable part of the ISO 20760 series, including subjecting the component to appropriate functional tests.

NOTE 2 All pressures referred to in this document are gauge pressures unless otherwise specified.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 22760-1, *Road vehicles — Dimethyl ether (DME) fuel system components — Part 1: General requirements and definitions*

ISO 22760-2, *Road vehicles — Dimethyl ether (DME) fuel system components — Part 2: Performance and general test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 22760-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

rupture pressure

activation pressure

inlet pressure specified by the pressure relief device (PRD) manufacturer, at which the PRD is designed to activate to permit the flow to its outlet in order to discharge the fuel container pressure

3.2

activation temperature

temperature of the pressure relief device (PRD) specified by its manufacturer, at which the PRD is designed to activate to permit the flow to its outlet in order to discharge the fuel container pressure

4 Marking

Marking of the component shall provide sufficient information to allow the following to be traced:

- a) the manufacturer's or agent's name, trademark or symbol;
- b) the model designation (part number);
- c) the working pressure;
- d) the yield or activation temperature and/or pressure in accordance with [Annex A](#).

The following additional marking entries are recommended:

- the direction of flow (when necessary for correct installation);
- the type of fuel;
- electrical ratings (if applicable);
- the symbol of the certification agency;
- the type approval number;
- the serial number or date code;
- a reference to this document.

NOTE This information can be provided by a suitable identification code on at least one part of the component when it consists of more than one part.

5 Design and assembly

The PRD shall comply with the applicable provisions of ISO 22760-1 and ISO 22760-2, and pass the tests specified in [Clause 6](#).

6 Tests

6.1 Applicability

The required tests are indicated in [Table 1](#).