

MAISMAASÕIDUKITE GAASILISE VESINIKUGA
TANKIMISE ÜHENDUSSEADMED

Gaseous hydrogen land vehicle refuelling connection
devices (ISO 17268:2012)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 17268:2016 sisaldab Euroopa standardi EN ISO 17268:2016 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 17268:2016 consists of the English text of the European standard EN ISO 17268:2016.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 02.11.2016.	Date of Availability of the European standard is 02.11.2016.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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ICS 43.180, 71.100.20

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EUROPEAN STANDARD

EN ISO 17268

NORME EUROPÉENNE

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English Version

Gaseous hydrogen land vehicle refuelling connection devices (ISO 17268:2012)

Dispositifs de raccordement pour le ravitaillement des
véhicules terrestres à hydrogène gazeux (ISO
17268:2012)

Gasförmiger Wasserstoff - Anschlussvorrichtungen für
die Betankung von Landfahrzeugen (ISO 17268:2012)

This European Standard was approved by CEN on 8 July 2016.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

The text of ISO 17268:2012 has been prepared by Technical Committee ISO/TC 197 “Hydrogen technologies” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 17268:2016 by Technical Committee CEN/TC 268 “Cryogenic vessels and specific hydrogen technologies applications” the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2017, and conflicting national standards shall be withdrawn at the latest by May 2017.

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Endorsement notice

The text of ISO 17268:2012 has been approved by CEN as EN ISO 17268:2016 without any modification.

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Gaseous hydrogen land vehicle refuelling connection devices

1 Scope

This International Standard defines the design, safety and operation characteristics of gaseous hydrogen land vehicle (GHLV) refuelling connectors.

GHLV refuelling connectors consist of the following components, as applicable:

- receptacle and protective cap (mounted on vehicle);
- nozzle.

This International Standard applies to refuelling connectors which have working pressures of 11 MPa, 25 MPa, 35 MPa and 70 MPa, hereinafter referred to in this International Standard as the following:

- H11 – 11 MPa at 15 °C;
- H25 – 25 MPa at 15 °C;
- H35 – 35 MPa at 15 °C;
- H35HF – 35 MPa at 15 °C (high flow for commercial vehicle applications);
- H70 – 70 MPa at 15 °C.

Nozzles and receptacles that meet the requirements of this International Standard will only allow GHLVs to be filled by fuelling stations dispensing hydrogen with nominal working pressures equal to or lower than the vehicle fuel system working pressure. They will not allow GHLV to be filled by fuelling stations dispensing blends of hydrogen with natural gas.

Refuelling connectors dispensing blends of hydrogen with natural gas are excluded from the scope of this International Standard.

NOTE This International Standard can be used for certification purposes.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 188, *Rubber, vulcanized or thermoplastic — Accelerated ageing and heat resistance tests*

ISO 1431-1, *Rubber, vulcanized or thermoplastic — Resistance to ozone cracking — Part 1: Static and dynamic strain testing*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

ISO 12103-1, *Road vehicles — Test dust for filter evaluation — Part 1: Arizona test dust*

ISO 14687-2, *Hydrogen fuel — Product specification — Part 2: Proton exchange membrane (PEM) fuel cell applications for road vehicles*

ISO 15501-1, *Road vehicles — Compressed natural gas (CNG) fuel systems — Part 1: Safety requirements*