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Polnilne postaje za oskrbo z zemeljskim plinom - Postaje za oskrbo vozil z utekočinjenim zemeljskim plinom (LNG) (ISO 16924:2026)

Natural gas fuelling stations - Liquefied natural gas (LNG) stations for fuelling road vehicles (ISO 16924:2026)

Gasfüllanlagen - LNG Füllanlagen zur Betankung von Fahrzeugen (ISO 16924:2026)

Stations-service de gaz naturel - Stations de gaz naturel liquéfié (GNL) pour le ravitaillement de véhicules routiers (ISO 16924:2026)

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75.060	Zemeljski plin	Natural gas
75.200	Oprema za skladiščenje nafte, naftnih proizvodov in zemeljskega plina	Petroleum products and natural gas handling equipment

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 16924

January 2026

ICS 75.200

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Natural gas fuelling stations - Liquefied natural gas (LNG) stations for fuelling road vehicles (ISO 16924:2026)

Stations-service de gaz naturel - Stations de gaz naturel liquéfié (GNL) pour le ravitaillement de véhicules routiers (ISO 16924:2026)

Gasfüllanlagen - LNG Füllanlagen zur Betankung von Fahrzeugen (ISO 16924:2026)

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European foreword

This document (EN ISO 16924:2026) has been prepared by Technical Committee ISO/TC 340 "Natural gas fuelling stations" in collaboration with Technical Committee CEN/TC 326 “Natural gas vehicles - Fuelling and operation” the secretariat of which is held by TSE.

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International Standard

ISO 16924

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Stations-service de gaz naturel — Stations de gaz naturel liquéfié (GNL) pour le ravitaillement de véhicules routiers

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This document was prepared by Technical Committee ISO/TC 340, *Natural gas fuelling stations,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 326, *Natural gas vehicles – Fuelling and operation,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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This second edition cancels and replaces the first edition (ISO 16924:2016), which has been technically revised.

The main changes are as follows:

— revision of content based on operating experience and accident review, e.g. limited use of detachable joints, use of fire-safe gaskets, use of gas detectors in critical areas;

— addition of requirements for the interface between the liquified natural gas (LNG) road tanker and LNG fuelling station with reference to EN 17922 (LNG unloading stop system);

— addition of requirements for multi-fuel stations with reference to CEN-CENELEC GUIDE 38;

— addition of requirements to prohibit venting to the atmosphere;

— revision of Figures A.1 and A.2;

— deletion of Figure A.3;

— deletion of Annex K;

— addition of Annex L.

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Natural gas fuelling stations — Liquefied natural gas (LNG) stations for fuelling road vehicles

1 Scope

This document specifies requirements for the design, construction, operation, maintenance and inspection of stations for fuelling liquefied natural gas (LNG) to vehicles, including equipment, safety and control devices. This document also specifies the design, construction, operation, maintenance and inspection of fuelling stations using LNG as an onsite source for supplying compressed natural gas (CNG) to vehicles, commonly referred to as liquefied-to-compressed natural gas (LCNG) fuelling stations, including safety and control devices of the station and specific LCNG fuelling station equipment.

NOTE Specific CNG equipment is dealt with in ISO 16923.

This document is applicable to fuelling stations receiving LNG and other liquefied methane-rich gases such as bio LNG which comply with local applicable gas composition regulations or with the gas quality requirements of ISO 13686.

This document covers all equipment from the LNG storage tank unloading connection up to (but not including) the fuelling nozzle on the vehicle. The LNG storage tank unloading connection itself and the vehicle fuelling nozzle are not covered in this document.

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This document applies to fuelling stations having the following characteristics:

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— private access;

— public access (self-service or assisted);

— metered dispensing and non-metered dispensing;

— fuelling stations with fixed LNG storage;

— fuelling stations with mobile LNG storage;

— movable fuelling stations;

— mobile fuelling stations;

— multi-fuel stations.

This document does not apply to:

— equipment, piping, or tubing downstream of the gas pressure regulator for closed boil-off gas systems;

— liquefaction equipment.

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 4126 (all parts), *Safety devices for protection against excessive pressure*

ISO 9606-1, *Qualification testing of welders — Fusion welding — Part 1: Steels*

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