

Nadomešča:**SIST EN 16922:2018+A1:2019**

Železniške naprave - Talna oskrba - Oprema vozil za odvoz odpadnih voda

Railway applications - Ground based services - Vehicle waste water discharge equipment

Bahnanwendungen - Versorgungsdienste - Fahrzeugabwasserentsorgungseinrichtungen

Applications ferroviaires - Services au sol - Equipement de vidange des eaux usées des véhicules

Ta slovenski standard je istoveten z: EN 16922:2026**ICS:**

13.060.30	Odpadna voda	Sewage water
45.060.20	Železniški vagoni	Trailing stock

SIST EN 16922:2026**en,fr,de**

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English Version

**Railway applications - Ground based service - Vehicle
waste water discharge equipment**

Applications ferroviaires - Services au sol - Equipement
de vidange des eaux usées des véhicules

Bahnanwendungen - Versorgungsdienste -
Fahrzeugabwasserentsorgungseinrichtungen

This European Standard was approved by CEN on 28 December 2025.

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European foreword

This document (EN 16922:2026) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by August 2026, and conflicting national standards shall be withdrawn at the latest by August 2026.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 16922:2017+A1:2019.

This document includes the following significant changes with respect to EN 16922:2017+A1:2019:

- 5.2.8 is revised to give additional guidance to not overpressurize the system;
- update of standard references.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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EN 16922:2026 (E)**1 Scope**

This document specifies the interface requirements for controlled emission toilet equipment on railway vehicles and the infrastructure, including catering area sink waste retention tanks. Vehicle and infrastructure specific requirements are also given.

The document includes fixed and portable infrastructure equipment used to empty retention tanks, but excludes equipment fitted to railway vehicles where no fixed connections are used between vehicle and infrastructure.

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.

EN 1717, *Protection against pollution of water intended for human consumption in potable water installations and general requirements for devices to prevent pollution by backflow*

EN 12663-1, *Railway applications — Structural requirements of railway vehicle bodies — Part 1: Locomotives and passenger rolling stock (and alternative method for freight wagons)*

EN 15877-2:2013, *Railway applications — Markings of railway vehicles — Part 2: External markings on coaches, motive power units, locomotives and on track machines*

EN 16362:2013, *Railway applications — Ground based services — Water restocking equipment*

EN 45545-2, *Railway applications — Fire protection on railway vehicles — Part 2: Requirements for fire behaviour of materials and components*

3 Terms and definitions

For the purposes of this document, the following terms and definitions 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**railway infrastructure**

all installations required for the running of railway vehicles including operating and support facilities

EXAMPLE Tracks, crossings, catenaries, signals, maintenance depots.

3.2**grey water**

waste water from hand wash and galley sinks, usually contaminated with soap, germicides, residues of food, drink and dish water

3.3**servicing point**

location where maintenance, refuelling and cleaning is carried out

3.4

controlled emission toilet

toilet system where the toilet waste is retained on the vehicle and emptied at prescribed locations, including onboard waste treatment systems which are permitted to discharge some wastes at various locations

4 General

4.1 Description of vacuum

Vacuum can be expressed in different manners. Absolute vacuum is 0 bar and atmospheric pressure is nominally 1 bar (although this varies). When a vacuum pump evacuates 0,2 bar from a tank the remaining pressure within the tank is 0,8 bar (if the atmospheric pressure is 1 bar), but this can be expressed in a variety of ways. Therefore, to avoid doubt, because the atmospheric pressure varies, throughout this document, vacuum is expressed as a negative number of bars below atmosphere (i.e. in the above example this is expressed within this standard as -0,2 bar).

Positive pressure is expressed as bars above atmosphere, i.e. in this document an absolute pressure of 3 bar is shown as +2 bar.

4.2 Description of controlled emission toilet systems

There are five generic types of controlled emission toilets fitted to railway vehicles considered in this document, shown diagrammatically in Annex A.

5 Requirements

5.1 General requirements

Each vehicle and servicing point shall be clearly marked with the type of system that is fitted, or intended to be used for. Adjacent to the connection on the vehicle and infrastructure the background, or if there is no background, an area beside the connection with a minimum dimension 60 mm x 60 mm, shall be coloured as shown in Table 1 and marked with the wording shown in Table 1 in the native language of the servicing point or the home depot of the vehicle and also at least in English. The labels shall be in a contrasting colour to the background colour.