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Gasilska in reševalna vozila - 3. del: Trajno vgrajena oprema - Varnost in zahteve za delovanje

Firefighting and rescue service vehicles - Part 3: Permanently installed equipment - Safety and performance

Feuerwehrfahrzeuge - Teil 3: Fest eingebaute Ausrüstung - Sicherheits- und Leistungsanforderungen

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Véhicules des services de secours et de lutte contre l'incendie - Partie 3: Equipements installés à demeure - Sécurité et performances

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Ta slovenski standard je istoveten z: **EN 1846-3:2026**

ICS:

13.220.10	Gašenje požara	Fire-fighting
43.160	Vozila za posebne namene	Special purpose vehicles

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1846-3

October 2026

ICS 13.220.10

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English Version

Firefighting and rescue service vehicles - Part 3: Permanently installed equipment - Safety and performance

Véhicules des services de secours et de lutte contre l'incendie - Partie 3 : Équipements installés à demeure - Sécurité et performances

Feuerwehrfahrzeuge - Teil 3: Fest eingebaute Ausrüstung - Sicherheits- und Leistungsanforderungen

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European foreword

This document (EN 1846-3:2026) has been prepared by Technical Committee CEN/TC 192 “Fire and Rescue Service Equipment”, the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by April 2027, and conflicting national standards shall be withdrawn at the latest by April 2027.

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 1846-3:2013.

This document contains the following significant technical changes compared to EN 1846-3:2013:

— scope: the list of permanently installed equipment covered (use of wireless control systems included) and the list of the equipment not covered have been updated;

— all notes recalling Directives and Regulations references have been removed;

— throughout the document, the meaning of sentences containing “may” and “can” has been analysed and changes made where necessary;

— the normative references have been updated and dated;

— term entries 3.2 (additive), 3.3 (usable capacity) and 3.6 (bracket assembly for removable equipment) have been amended to use the same wording as in this document ;

— in 3.1.10, the term and its definition have been amended;

— definitions “installed water pump” (3.1.5), “installed additive pump” (3.2.2) and “demountable” (3.8) have been updated;

— definitions of water tank capacity (3.3) and demounting system (3.9) have been added ;

— symbols and abbreviated terms are now in Clause 4 (instead of Annex A);

— the list of significant hazards is now in Annex A (instead of Clause 4);

— Required Performance Levels (PL_r) have been added in 5.2.2 (Water installation), 5.2.4 (Monitor), 5.2.5 (Bracket assembly for removable equipment) and 5.2.6.14 (Hook arm system);

— ergonomics requirements are now in 5.2 “Safety requirement” instead of 5.3 “Performance requirements”;

— requirements for indicators visible from the pump operating position (5.2.1.8) have been updated;

— requirements for water installation (5.2.2 and 5.3.2) have been updated;

— requirements for additive installation (5.2.3 and 5.3.3) have been updated;

— safety requirements (5.2.4) and performance requirements (5.3.4) for monitor have been updated;

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— 5.2.7 (Lifting system using a crane) has been added;

— 5.2.8 (Extendable equipment) has been added;

— in 5.3.2.1.5, alternatively to the height the delivery rate and pressure can be measured using the geodetic nominal suction height;

— Table 3 (Priming time) has been updated;

— 6.4 (Marking on equipment) has been amended;

— Annex C (Usable capacity of the water tank) has been updated;

— Annex E (Variation of the suction height) has been added;

— Annex F (Examples of other demounting systems) has been added;

— Annex ZA now refers to Regulation (EU) 2023/1230.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

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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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According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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Introduction

This document is a type-C standard as stated in EN ISO 12100.

This document is of relevance, in particular, for the following stakeholder groups representing the market players with regard to machinery safety:

— machine manufacturers (small, medium and large enterprises);

— health and safety bodies (regulators, accident prevention organizations, market surveillance, etc.).

Others can be affected by the level of machinery safety achieved with the means of the document by the above-mentioned stakeholder groups:

— machine users/employers (small, medium and large enterprises);

— machine users/employees (e.g. trade unions, organizations for people with special needs);

— service providers, e.g. for maintenance (small, medium and large enterprises);

— consumers (in the case of machinery intended for use by consumers).

The above-mentioned stakeholder groups have been given the possibility to participate at the drafting process of this document.

The machinery concerned and the extent to which hazards, hazardous situations or hazardous events are covered are indicated in the Scope of this document.

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When requirements of this type-C standard are different from those which are stated in type-A or type-B standards, the requirements of this type-C standard take precedence over the requirements of the other standards for machines that have been designed and built according to the requirements of this type-C standard.

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While producing this document it was assumed that, due to the European regulations on the approval of vehicles for use on public roads, fire fighting vehicles still comply with:

— EMC requirements;

— cyber security requirements.

Therefore, EMC and cyber security are not further considered in this document.

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1 Scope

1.1 This document specifies the minimum requirements for safety and performance of some optional specific permanently installed equipment on firefighting and rescue service vehicles, operated by trained persons, as designated in EN 1846-1:2011 and specified in EN 1846-2:2024.

NOTE 1 Categories and mass classes of these vehicles are given in EN 1846-1:2011.

NOTE 2 Vehicle means ground vehicles which can also drive on rails and amphibious vehicles.

The permanently installed equipment covered by this document is given below:

— water installation;

— additive installation;

— monitor;

— equipment gantries;

— demounting systems.

This document covers also the use of wireless control systems.

NOTE 3 This document is assumed to be read in conjunction with any national regulations in force for vehicles using the public roads and with any EU Directives and associated EFTA regulations in force relevant to vehicles and their equipment.

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For the purposes of this document, the normal ambient temperature range is –15 °C to +40 °C.

For equipment to be used at temperature outside this temperature range, the particular temperature range is specified by the user. A risk assessment determines any need for additional precautions.

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1.2 This document does not deal with the following types of equipment:

— all control systems outside of the cabin related to hook arm system;

— provisions for non-firefighting removable equipment driven by PTO.

1.3 This document deals with the technical requirements to minimize the hazards listed in Annex A which can arise during operational use, routine checking and maintenance of firefighting and rescue service vehicles.

It does not cover the hazards generated by:

— non-permanently installed equipment i.e. portable equipment carried on the vehicle;

— use in potentially explosive atmospheres;

— commissioning and decommissioning;

— noise (as permanently installed equipment cannot be operated separately from the vehicle, this hazard is covered in EN 1846-2:2024);

— electromagnetic compatibility;

— cyber security;

— cyber safety.

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Additional measures not dealt with in this document can be necessary for specific use (e.g. fire in natural environment, flooding, etc.).

1.4 This document is not applicable to the equipment which is manufactured before its date of publication by CEN.

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 547-2:1996+A1:2008, *Safety of machinery — Human body measurements — Part 2: Principles for determining the dimensions required for access openings*

EN 659:2003+A1:2008,[1] *Protective gloves for firefighters*

EN 1028-1:2002+A1:2008, *Fire-fighting pumps — Fire-fighting centrifugal pumps with primer — Part 1: Classification — General and safety requirements*

EN 1846-1:2011, *Firefighting and rescue service vehicles — Part 1: Nomenclature and designation*

EN 1846-2:2024, *Firefighting and rescue service vehicles — Part 2: Common requirements — Safety and performance*

EN 12999:2020+A1:2025, *Cranes — Loader cranes*

EN 14710-1:2005+A2:2008, *Fire-fighting pumps — Fire-fighting centrifugal pumps without primer — Part 1: Classification, general and safety requirements*

EN 15767-1:2026, *Portable equipment for projecting extinguishing agents and firefighting support operations — Portable monitors — Part 1: General requirements for portable monitor assemblies*

EN 16327:2014, *Fire-fighting — Positive-pressure proportioning systems (PPPS) and compressed-air foam systems (CAFS)*

EN 60529:1991,[2] *Degrees of protection provided by enclosures (IP Code) (IEC 6059:1989)*

EN ISO 4413:2010, *Hydraulic fluid power — General rules and safety requirements for systems and their components (ISO 4413:2010)*

EN ISO 4414:2010, *Pneumatic fluid power — General rules and safety requirements for systems and their components (ISO 4414:2010)*

EN ISO 12100:2010, *Safety of machinery — General principles for design — Risk assessment and risk reduction (ISO 12100:2010)*

EN ISO 13849-1:2023, *Safety of machinery — Safety-related parts of control systems — Part 1: General principles for design (ISO 13849-1:2023)*

[1] As impacted by EN 659:2003+A1:2008/AC:2009.

[2] As impacted by EN 60529:1991/A1:2000 and EN 60529:1991/A2:2013, and EN 60529:1991/AC:2016-12, EN 60529:1991/corrigendum May 1993, and EN 60529:1991/A2:2013/AC:2019-02.

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3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1846-1:2011, EN 1846-2:2024 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
water installation
combination of components for the collection, storage and delivery of water and/or water-additive mixture at varying pressures and delivery rates

3.1.1
classification of the water installation
combination of the delivery rate Q_1 specified at pressure p_{a1} and at specified height d

3.1.2
height
d
difference of level between the standing surface of the vehicle and the water surface at the time of a pumping appliance suction operation

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3.1.3
standing surface of the vehicle
surface on which the vehicle wheels are resting when it is operating

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3.1.4
standing surface of the operator
surface on which the operator stands

3.1.5
installed water pump
pump for water permanently installed on a vehicle and driven by the power supply of the vehicle or by its own power supply

3.1.6
installed water tank
container for storage of water for fire service purposes

3.1.7
supply and delivery connections for water
inlet and outlet devices for joining hoses to the pipework installation

3.1.8
pipework installation for water
system linking the installed water pump(s), the installed water tank(s) and the supply and delivery connections

3.1.9
operating and control instruments for water
controls and gauges necessary to operate and monitor the water installation system

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3.1.10
hosereel
fixed hose storage system on a rotating drum for hose assembly(ies)

3.1.11
wheeled hosereel
hosereel designed for the storage, the transport and the deployment of layflat hose

3.2
additive
addition to water to enhance firefighting capabilities

3.2.1
additive installation
combination of components for the collection, storage and delivery of additive at varying pressures and delivery rates before mixing with water

3.2.2
installed additive pump
pump for additive permanently installed on a vehicle and driven by the power supply of the vehicle or by its own power supply

3.2.3
installed additive tank
container for storage of additive for fire service purposes

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3.2.4
supply and delivery connections for additive
inlet and outlet devices for joining hoses to the additive installation

3.2.5
pipework installation for additive
system linking the installed additive pump(s), the installed additive tank(s) and the supply and delivery connections

3.2.6
operating and control instruments for additive
controls and gauges necessary to operate and monitor the additive installation system

3.3
water tank capacity
nominal capacity
declared capacity of a tank

3.4
usable capacity
capacity of liquid contained in a tank that can be used by the corresponding pump(s)

3.5
mixing system
system to mix the additive (including foam concentrate) with water (and sometimes air) to produce the required firefighting media

Note 1 to entry: The mixing system is part of the water and/or additive installation.

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3.6
monitor
device for projection of extinguishing agents

3.7
bracket assembly for removable equipment
bracket assembly
mechanical system(s), manually or power driven, to assist with the loading, unloading and storage of equipment

3.8
demountable
specially designed frame with superstructure that can be transported by a suitable vehicle and mounted and dismounted by a demounting system

3.9
demounting system
equipment installed on the vehicle used to mount and dismount a *demountable* (3.8) from a vehicle

Note 1 to entry: See examples in Figure 2, Figure 3 and Figures of Annex F.

3.10
hold-to-run control device
control device which initiates and maintains machine functions only as long as the manual control (actuator) is actuated

[SOURCE: EN ISO 12100:2010, 3.28.3]

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4 Symbols and abbreviated terms

The following symbols and abbreviated terms are used in this document:

d	height, m
d_{eff}	minimum effective throw of the monitor, m
d_{max}	maximum throw of the monitor, m
$H_{\text{S geo N}}$	geodetic nominal suction height, m
p_{a}	maximum outlet pressure, bar
p_{a1}	pressure, bar
$p_{\text{a lim}}$	maximum working pressure, bar
n_0	maximum speed, rpm
Q	flowrate of the monitor, l/min
Q_1	delivery rate of the water installation, l/min
FPN	normal-pressure pump
PL_{r}	required performance level

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5 Requirements and verifications

5.1 General

The general conditions for the tests to which this document refers are given in Annex A of EN 1846-2:2024.

Data of the component(s) may be used as part of the verification.

Any permanently installed equipment shall not cause unintended interference to other permanently installed equipment on the vehicle.

Adjustments permitted during the intended use of the vehicle shall be possible without the use of tools.

NOTE Tools means: screwdriver, hammer, etc.

Design and construction of permanently installed equipment shall comply with the requirements and specifications for installation on the chassis.

Verification

By checking compliance with the chassis specification.

5.2 Safety requirements and/or protective/risk reduction measures — Verifications

5.2.1 General

5.2.1.1 Permanently installed equipment shall comply with the general safety requirements and/or protective measures described in EN 1846-2:2024 as well as with the safety requirements and/or measures of 5.2. In addition, the equipment shall be designed according to the principles of EN ISO 12100:2010 for hazards relevant but not significant which are not dealt with in this document.

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5.2.1.2 Each operating position for each item of equipment shall have a stop control. This stop control does not have to be an emergency stop control as specified in EN ISO 13850:2015.

Verification

By visual inspection and functional test of the stop control.

5.2.1.3 The design and selection of oil hydraulic components of permanently installed equipment shall conform to the requirements of EN ISO 4413:2010.

Verification

By inspection of the information supplied.

5.2.1.4 The design and selection of pneumatic components of permanently installed equipment shall conform to the requirements of EN ISO 4414:2010.

Verification

By inspection of the information supplied.

5.2.1.5 Construction techniques and materials of the permanently installed equipment shall be chosen so that they are protected against corrosion.

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Verification

By verification of the attestation of the equipment/material's supplier.

5.2.1.6 The equipment shall be protected against accumulation of water, dirt and corrosive substances, between and within the construction elements. Particular care shall be taken to avoid electro-chemical corrosion.

Verification

By visual inspection

5.2.1.7 The design of permanently installed equipment and their mountings shall withstand the physical stresses applied in normal operational use.

Verification

By visual inspection and functional verification after transportation tests.

5.2.1.8 Controls at the pump operating position shall include:

— pump speed control device;

— stop control (see 5.2.1.2).

Indicators visible from the pump operating position shall include:

— pump pressure indicator for each nominal pressure according to 5.2.5.2 of EN 1028-1:2002+A1:2008;

— pump vacuum indicator (where priming system fitted) according to 5.2.5.2 of EN 1028-1:2002+A1:2008;

— critical vehicle malfunction warning device (e.g. oil pressure or water temperature);

— level indication for each tank containing extinguishing liquids.

Supplementary controls at the pump operating position can include, for example:

— pump engaging device;

— suction valve control;

— priming device control;

— delivery valve(s) control(s).

Supplementary indicators at the pump operating position can include, for example:

— pump engaged indicator;

— speed indicator of pump;

— speed indicator of pump engine;

— priming device engaged indicator;

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— hour metre(s);

— energy storage indicator.

If other operating position is provided, e.g. for monitor, controls and indicators shall be agreed at the time of enquiry and order.

Verification

By visual and functional verification of controls and indicators except where the function of the component is outside normal operating use, in which case verification shall be by checking the wiring circuit.

The same method of verification should be applied to the optional indicators and/or controls, where used.

5.2.2 Water installation

5.2.2.1 General

5.2.2.1.1 The required performance level (PL_r), in accordance with EN ISO 13849-1:2023, of the safety related parts of the control system for regulation of the pressure and opening of pressure outlet(s) shall comply with PL_r a.

Verification

Documentation check.

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5.2.2.1.2 All parts of the water installation designed to work at a pressure higher than 0,5 bar shall withstand the designed maximum working pressure ($p_{a\,lim}$) specific to that part of the installation plus 5,5 bar without any permanent deformation, damage or leakage.

Verification

By hydrostatic test for 1 min. The pump may be excluded from this test.

5.2.2.1.3 The maximum outlet pressure p_a shall not exceed the limit pressure ($p_{a\,lim}$) as defined in EN 1028-1:2002+A1:2008 or EN 14710-1:2005+A2:2008 at the maximum inlet pressure of the pump.

Verification

By calculation or dynamic test.

5.2.2.1.4 The maximum speed of the installed water pump shall be less than the maximum speed n_0 as defined in 3.6.3 of EN 1028-1:2002+A1:2008.

Verification

By measuring the maximum speed of the pump.

5.2.2.1.5 The deviation of the outlet pressure of the pump shall meet the requirements of Table 1 when operating at p_{a1} and Q_1..

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