

<b>STN</b>	<b>Bezpečnostné a ovládacie zariadenia horákov a spotrebičov na plynne palivá Časť 3: Elektronické regulátory tlaku a/alebo prietoku na vstupný tlak do 500 kPa vrátane</b>	<b>STN EN 88-3+A1</b>  06 1021
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Safety and control devices for gas burners and gas burning appliances - Part 3: Pressure and/or flow rate regulators for inlet pressures up to and including 500 kPa, electronic types

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/25

Obsahuje: EN 88-3:2022+A1:2024

Oznámením tejto normy sa od 30.11.2027 ruší  
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 88-3:2022+A1**

November 2024

ICS 23.060.40

English Version

**Safety and control devices for gas burners and gas burning  
appliances - Part 3: Pressure and/or flow rate regulators  
for inlet pressures up to and including 500 kPa, electronic  
types**

Dispositifs de sécurité et de contrôle pour les brûleurs  
à gaz et appareils utilisant des combustibles gazeux -  
Partie 3 : Régulateurs de pression et/ou de débit de  
type électronique pour pression amont inférieure ou  
égale à 500 kPa

Sicherheits- und Regeleinrichtungen für Gasbrenner  
und Gasgeräte - Teil 3: Druck- und/oder  
Durchflussregler für Eingangsdrücke bis einschließlich  
500 kPa, elektronische Ausführung

This European Standard was approved by CEN on 8 August 2022 and includes Amendment 1 approved by CEN on 3 July 2024.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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.

CEN members are the national standards bodies of 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 United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

**EN 88-3:2022+A1:2024 (E)**

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## European foreword

This document (EN 88-3:2022+A1:2024) has been prepared by Technical Committee CEN/TC 58 “Safety and control devices for burners and appliances burning gaseous or liquid fuels”, 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 May 2025, and conflicting national standards shall be withdrawn at the latest by November 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 includes Amendment 1 approved by CEN on 3 July 2024.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

This document supersedes A1 EN 88-3:2022.

This standard differs from EN 88:2022 as follows:

a) Annex ZA has been brought in line with Mandate M/595 and the normative references are updated. A1

This document has been prepared under a Standardization Request given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s) / Regulation(s).

For relationship with EU Directive(s) / Regulation(s), see informative Annex ZA, which is an integral part of this document.

The EN 88 series consists of the following parts:

- EN 88-1, *Safety and control devices for gas burners and gas burning appliances — Part 1: Pressure regulators for inlet pressures up to and including 50 kPa*;
- EN 88-2, *Safety and control devices for gas burners and gas burning appliances — Part 2: Pressure regulators for inlet pressures above 50 kPa up to and including 500 kPa*;
- EN 88-3, *Safety and control devices for gas burners and gas burning appliances — Part 3: Pressure and/or flow rate regulators for inlet pressures up to and including 500 kPa, electronic types*.

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.

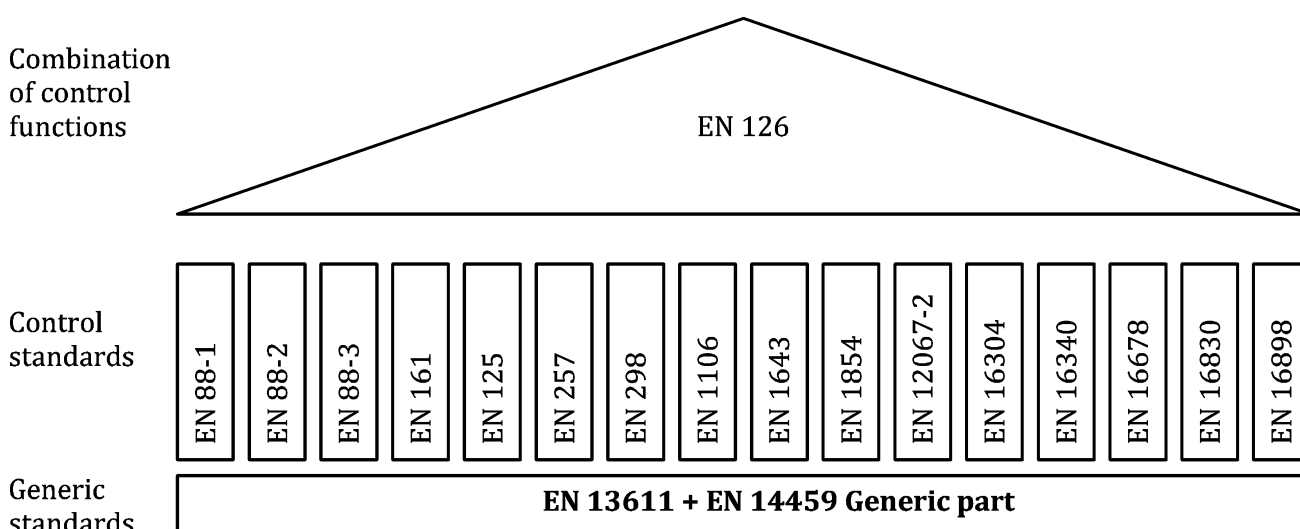
According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, 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.

**EN 88-3:2022+A1:2024 (E)****Introduction**

This document is intended to be used in conjunction with EN 13611:2019.

EN 13611:2019 recognizes the safety level specified by CEN/TC 58 and is regarded as a horizontal standard dealing with the safety, construction, performance and testing of controls for burners and appliances burning gaseous and/or liquid fuels.

The general requirements for controls are given in EN 13611:2019, and methods for classification and assessment for new controls and control functions are given in EN 14459:2021 (see Figure 1). EN 126:2012 (see Figure 1) specifies multifunctional controls combining two or more controls and Application Control Functions, one of which is a mechanical control function. The requirements for controls and Application Control Functions are given in the specific control standard (see Figure 1, control functions).



**Figure 1 — Interrelation of control standards**

EN 13611:2019 should be used in conjunction with the specific standard for a specific type of control (e.g. **EN 88-1:2022+A1:2023**, **EN 88-2:2022+A1:2024**, **EN 88-3:2022+A1:2024**, **EN 125:2022+A1:2024**, **EN 161:2022**, **EN 257:2022+A1:2023**, **EN 298:2022**, **EN 1106:2022+A1:2023**, **EN 1643:2022**, **EN 1854:2022+A1:2023**, **EN 12067-2:2022**, **EN 16304:2022+A1:2024**, **EN 16340:2014**, **EN 16678:2022** and **EN 16898:2022+A1:2023**), or for controls for specific applications.

EN 13611:2019 can also be applied, so far as reasonable, to controls not mentioned in a specific standard and to controls designed on new principles, in which case additional requirements can be necessary. EN 14459:2021 provides methods for classification and assessment of new control principles.

Primarily in industrial applications it is common practice to rate the safety of a plant based on values describing the likelihood of a dangerous failure. These values are being used to determine Safety Integrity Levels or Performance Levels when the system is being assessed in its entirety.

CEN/TC 58 standards for safety relevant controls do go beyond this approach, because for a certain life time for which the product is specified, designed and tested a dangerous failure is not allowed at all. Failure modes are described and assessed in greater detail.

Measures to prevent from dangerous situations are defined. Field experience over many decades is reflected in the CEN/TC 58 standards. Requirements of EN 13611:2019 can be considered as proven in practice.



This document refers to clauses of EN 13611:2019 or adapts clauses by stating “with the following modification”, “with the following addition”, “is replaced by the following” or “is not applicable” in the corresponding clause.

This document adds clauses or subclauses to the structure of EN 13611:2019 which are particular to this document. Subclauses which are additional to those in EN 13611:2019 are numbered starting from 101. It should be noted that these clauses, subclauses and Annexes are not indicated as an addition.

If by reference to EN 13611:2019 the term “control” is given, this term should be read as “regulator”.

**EN 88-3:2022+A1:2024 (E)****1 Scope**

EN 13611:2019, Clause 1 applies with the following modification and addition:

Modification:

The 1<sup>st</sup> paragraph of EN 13611:2019, Clause 1 is replaced by:

This document specifies the safety, design, construction, and performance requirements and testing for electronic pressure and/or flow rate regulators for burners and appliances burning one or more gaseous fuels, hereafter referred to as “regulators”.

This document is applicable to regulators with declared maximum inlet pressures up to and including 500 kPa and of nominal connection sizes up to and including DN 250.

Addition:

This document is applicable to:

- regulators which use auxiliary energy;
- regulators, which function by controlling a gas outlet pressure or a gas flow rate;
- regulators with a modular structure specified as a unit;
- regulators intended for gas appliances to be installed indoor or in the open air and exposed to the environment.

This document is not applicable to:

- regulators connected directly to a gas distribution network or to a container that maintains a standard distribution pressure.

The 4<sup>th</sup> paragraph of EN 13611:2019, Clause 1 is removed.

**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 161:2022, *Automatic shut-off valves for gas burners and gas appliances*

EN 13611:2019,<sup>1</sup> *Safety and control devices for burners and appliances burning gaseous and/or liquid fuels — General requirements*

EN 14459:2021, *Safety and control devices for burners and appliances burning gaseous or liquid fuels — Control functions in electronic systems — Methods for classification and assessment*

EN 175301-803:2006, *Detail Specification: Rectangular connectors — Flat contacts, 0,8 mm thickness, locking screw not detachable*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**

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<sup>1</sup> As impacted by EN 13611:2019/AC:2021.