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BSI Standards Publication

Manually operated taps for gas burning appliances

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National foreword

This British Standard is the UK implementation of EN 1106:2022. It supersedes BS EN 1106:2010, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GSE/22, Safety and control devices for gas and oil burners and gas burning appliances.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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This publication has been prepared under a mandate given to the European Standards Organizations by the European Commission and the European Free Trade Association. It is intended to support requirements of the EU legislation detailed in the European Foreword. A European Annex, usually Annex ZA or ZZ, describes how this publication relates to that EU legislation.

For the Great Britain market (England, Scotland and Wales), if UK Government has designated this publication for conformity with UKCA marking (or similar) legislation, it may contain an additional National Annex. Where such a National Annex exists, it shows the correlation between this publication and the relevant UK legislation. If there is no National Annex of this kind, the relevant Annex ZA or ZZ in the body of the European text will indicate the relationship to UK regulation applicable in Great Britain. References to EU legislation may need to be read in accordance with the UK designation and the applicable UK law. Further information on designated standards can be found at www.bsigroup.com/standardsandregulation.

For the Northern Ireland market, UK law will continue to implement relevant EU law subject to periodic confirmation. Therefore Annex ZA/ZZ in the European text, and references to EU legislation, are still valid for this market.

UK Government is responsible for legislation. For information on legislation and policies relating to that legislation, consult the relevant pages of www.gov.uk.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 October 2022.

Amendments/corrigenda issued since publication

Date

Text affected

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EUROPÄISCHE NORM

October 2022

ICS 23.060.40

Supersedes EN 1106:2010

English Version

Manually operated taps for gas burning appliances

Robinets à commande manuelle pour appareils à gaz

Handbetätigte Einstellgeräte für Gasgeräte

This European Standard was approved by CEN on 8 August 2022.

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.

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Annex ZA (informative)

Relationship between this European Standard and the essential requirements of Regulation (EU) 2016/426 aimed to be covered

This European Standard has been prepared under a Commission's standardization request [M/BC/CEN/89/6 \(gas appliances\)](#) to provide one voluntary means of conforming to essential requirements of Regulation (EU) 2016/426 of the European Parliament and of the council of 9 March 2016 on appliances burning gaseous fuels and repealing Directive 2009/142/EC.

Once this standard is cited in the Official Journal of the European Union under that Regulation, compliance with the normative clauses of this standard given in [Table ZA.1](#) confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Regulation, and associated EFTA regulations.

Table ZA.1 — Correspondence between this European Standard and Regulation (EU) 2016/426

Essential Requirements of Regulation (EU) 2016/426	Clause(s)/subclause(s) of this EN	Remarks/Notes
	When the below listed Clause(s)/ subclause(s) are not specifically mentioned in this document, the relevant Clause(s)/ subclause(s) of EN 13611:2019 fully apply.	
1.1	6.1 , 7.1 , 10.2	The standard supports this ER. In addition, all relevant ER as referenced for ER 1.7 up to 3.7 are concerned.
1.2		
1.3		
1.4		
1.5		Not applicable for taps.
1.6.1		Not applicable for taps.
1.6.2		Not applicable for taps.
1.6.3		Not applicable for taps.
1.7	10.2	
2	6.2.5 , 6.3.1 , 6.3.2.1, 6.3.3.1, 6.3.4 , 6.3.5 , 6.3.6 , 6.3.7 , 7.5.1, 7.5.2.1, 7.5.3.1, 7.5.4.1, 7.5.5, 0.4.1, 0.4.2.1, 0.5.1.1.1, 0.5.1.2.1, 0.5.1.3.1	
3.1.1	6.1 , 6.2.1 , 6.2.2 , 6.2.3.1, 6.3.2.1 6.3.3.1, 6.2.4 , 6.2.5 , 6.2.6 , 6.2.7 , 6.2.8 , 6.2.9 , 6.2.10 , 6.3.1 , 6.3.4 , 6.3.5 , 6.3.6 , 6.3.7 , 6.4 , 7.2.1, 7.3.1, 7.3.2.1, 7.5.1, 7.5.2.1, 7.5.3.1, 7.5.4.1, 7.5.5, 7.101.1 , 7.102.1 , 0.4.1, 0.5.1.1.1, 0.5.1.2.1, 0.5.1.3.1	
3.1.2		Not applicable for taps.
3.1.3	6.2.3.1, 6.3.2.1, 7.2.1	

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Essential Requirements of Regulation (EU) 2016/426	Clause(s)/subclause(s) of this EN	Remarks/Notes
3.1.4	6.3.7 , 6.4 , 7.2.1, 7.3.1, 7.3.2.1, 7.5.1, 7.5.2.1, 7.5.3.1, 7.5.4.1	
3.1.5		Not applicable for taps.
3.1.6		Not applicable for taps.
3.1.7		Not applicable for taps.
3.1.8		Not applicable for taps.
3.1.9	6.2.2 , 6.2.3.1, 6.2.4 , 6.2.5 , 6.2.6 , 6.2.7 , 6.2.8 , 6.2.9 , 6.2.10 , 6.2.101 , 6.3.1 , 6.3.2.1, 6.3.3.1, 6.3.4 , 6.3.5 , 6.3.6 , 6.3.7 , 6.4 , 7.2.1, 7.3.1, 7.3.2.1, 7.5.1, 0.4.1, 0.5.1.1.1, 0.5.1.2.1, 0.5.1.3.1	
3.1.10		Not applicable for taps.
3.1.11		Not applicable for taps.
3.1.12	6.2.2 , 6.2.3.1, 6.2.7 , 6.2.8 , 6.2.9 , 6.2.10 , 6.3.7	
3.1.13	6.2.2 , 6.2.8 , 6.2.10 , 6.101.1	
3.2.1	6.2.3.1, 6.2.4 , 6.2.5 , 6.2.7 , 6.2.10 , 6.3.2.1, 6.3.4 , 6.3.7 , 6.4 , 7.2.1, 7.3.1, 7.3.2.1, 7.5.1, 0.5.1.1.1, 0.5.1.2.1	
3.2.2		Not applicable for taps.
3.2.3		Not applicable for taps.
3.2.4		Not applicable for taps.
3.3		Not applicable for taps.
3.4.1		Not applicable for taps.
3.4.2		Not applicable for taps.
3.4.3		Not applicable for taps.
3.4.4		Not applicable for taps.
3.5		Not applicable for taps.
3.6.1		Not applicable for taps.
3.6.2		Not applicable for taps.
3.6.3		Not applicable for taps.
3.7		Not applicable for taps.

WARNING 1 Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

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European foreword

This document (EN 1106:2022) 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 April 2023, and conflicting national standards shall be withdrawn at the latest by October 2025.

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 1106:2010.

The following significant changes compared to the previous edition have been incorporated in this document:

- a) alignment with EN 13611:2019;
- b) requirements from EU Directive 2014/68/EU were not adopted;
- c) controls which use auxiliary energy are not within the scope of this document;
- d) reference to EN 437 removed;
- e) updating of [Clause 2](#), Normative references;
- f) information on lifetime for safe function (designed lifetime) added to instructions.

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.

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.

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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).

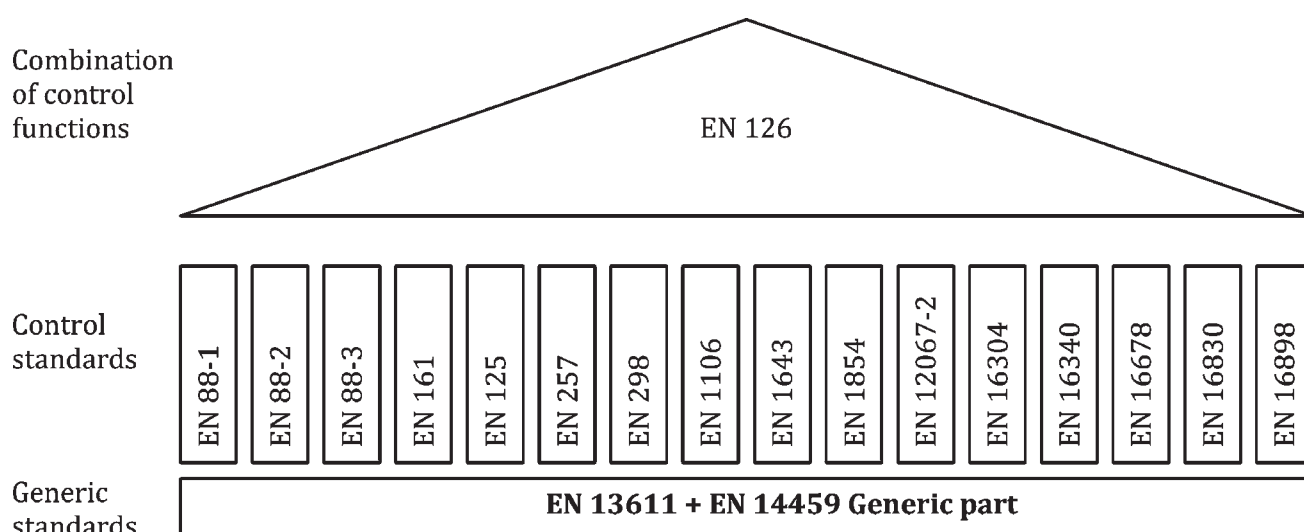


Figure 1 — Interrelation of control standards

EN 13611:2019 should be used in conjunction with the specific standard for a specific type of control (e.g. EN 88-1:2022, EN 88-2:2022, EN 88-3:2022, EN 125:2022, EN 126:2012, EN 161:2022, EN 257:2022, EN 298:2022, EN 1106:2022, EN 1643:2022, EN 1854:-¹⁾, EN 12067-2:2022, EN 16304:2022, EN 16340:2014, EN 16678:2022 and EN 16898:2022), 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.

1) Under preparation. Stage at the time of publication: FprEN 1854:2022.

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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. Additional Annexes are designated as Annex AA, Annex BB, Annex CC, etc. 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 “tap”.

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1 Scope

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

Modification:

The 1st paragraph of EN 13611:2019, Clause 1 is replaced by:

This document specifies the safety, design, construction, and performance requirements and testing for manually operated taps and presetting taps for burners and appliances burning one or more gaseous fuels, hereafter referred to as "taps".

This document is applicable to taps with declared maximum inlet pressures up to and including 50 kPa and of nominal connection sizes up to and including DN 50 for use with one or more fuel gases.

Addition:

This document is not applicable to:

- a) manual operated shut-off valves conforming to EN 331:2015;
- b) controls which use auxiliary energy (e.g. electrical energy supplied externally).

The 4th 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 30-1-1:2021, *Domestic cooking appliances burning gas — Part 1-1: Safety — General*

EN 331:2015, *Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings*

EN 13611:2019²⁾, *Safety and control devices for burners and appliances burning gaseous and/or liquid fuels — General requirements*

EN 14543:2017, *Specification for dedicated liquefied petroleum gas appliances — Parasol patio heaters — Flueless radiant heaters for outdoor or amply ventilated area use*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13611:2019 and the following apply.

ISO and IEC maintain terminological 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/>

3.101

control tap

direct or indirect manually operated device with one or more outlets for the control of the flow of gas from an off to an on position and vice versa

NOTE Parts commonly used in taps are shown as examples in [Figures 2 to 6](#).

2) As impacted by EN 13611:2019/AC:2021.