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IRISH STANDARD

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**GAS/AIR RATIO CONTROLS FOR GAS
BURNERS AND GAS BURNING APPLIANCES
- PART 1: PNEUMATIC TYPES**



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EUROPEAN STANDARD
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Descriptors: gas appliances, burners, pressure regulators, air, gas, safety, equipment specifications, materials, junctions, dimensions, performance evaluation, durability, tests, utilization, technical notices, marking

English version

**Gas/air ratio controls for gas burners and gas burning
appliances - Part 1: Pneumatic types**

Dispositifs de régulation du rapport air/gaz pour brûleurs à
gaz et appareils à gaz - Partie 1: Dispositifs pneumatiques

Gas-Luft-Verbundregler für Gasbrenner und Gasgeräte -
Teil 1: Pneumatische Ausführung

This European Standard was approved by CEN on 15 February 1998.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 58, “Safety and control devices for gas-burners and gas-burning appliances”, 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of an identical text or by endorsement, at the latest by April 1999, and conflicting national standards shall be withdrawn at the latest by April 1999.

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

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

This standard covers type testing only.

This Part of EN 12067 covers pneumatic type gas/air ratio controls. Other types will be covered in subsequent parts.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This Part of this European Standard, EN 12067 specifies the safety, construction and performance requirements for gas/air ratio controls for inlet pressures up to and including 500 mbar of nominal connection size up to and including DN 150, intended for use with gas appliances for use with one or more fuel gases of the first, second or third families. It also describes the test procedures for evaluating these requirements and specifies information necessary for installation and use.

It applies to gas/air ratio controls for gas burning appliances that can be tested independently of the appliance.

It applies to gas/air ratio controls which function by controlling a gas pressure (or differential pressure) output in response to an air pressure (or differential pressure) signal input, but gas/air ratio controls which change the air pressure in response to the gas pressure are not excluded.

It does not cover mechanically linked valves and electronic systems.

NOTE: Parts of the standard can be applied to the construction and performance of the ratio control function of multi-functional controls.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publications referred to applies.

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|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EN 161: 1991 | <i>Automatic shut-off valves for gas burners and gas appliances</i> |
| EN 60529: 1991 | <i>Degrees of protection provided by enclosures (IP codes).</i> |
| EN 60730-1: 1995 | <i>Automatic electrical controls for household and similar use
Part 1: General requirements</i> |
| EN 60998-2-1: 1995 | <i>Connecting devices for low voltage circuits for household and similar purposes; part 2-1 : particular requirements for connecting devices as separate entities with screw-type clamping units.</i> |
| EN 60998-2-2: 1995 | <i>Connecting devices for low voltage circuits for household and similar purposes; part 2-2 : particular requirements for connecting devices as separate entities with screwless type clamping units.</i> |

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