



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 12078:1999

ICS 23.060.40

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

ZERO GOVERNORS FOR GAS BURNERS AND GAS BURNING APPLIANCES

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on
March 12, 1999*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 1999

Price Code J

Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12078

August 1998

ICS 23.060.40

Descriptors: gas appliances burners, pressure regulators, definitions, safety, equipment specifications, materials, junctions, dimensions, performance evaluation, durability, tests, leak tests, performance tests, marking, technical notices

English version

Zero governors for gas burners and gas burning appliances

Détendeurs à zéro pour brûleurs à gaz et appareils à gaz

Nulldruckregler für Gasbrenner und Gasgeräte

This European Standard was approved by CEN on 26 July 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.



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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Contents

| | Page |
|---|------|
| Foreword | 4 |
| 1 Scope | 5 |
| 2 Normative references | 5 |
| 3 Definitions | 6 |
| 4 Units of measurement | 7 |
| 5 Construction requirements | 7 |
| 5.1 General | 7 |
| 5.2 Materials | 8 |
| 5.3 Connections | 9 |
| 5.4 Seals for glands for moving parts | 10 |
| 5.5 Pressure test nipples | 10 |
| 6 Performance requirements | 10 |
| 6.1 General | 10 |
| 6.2 External leak-tightness | 11 |
| 6.3 Torsion and bending | 11 |
| 6.4 Durability | 12 |
| 6.5 Zero governor performance | 13 |
| 6.6 Endurance | 13 |
| 6.7 Lock-up pressure | 13 |
| 6.8 Response time | 14 |
| 7 Test methods | 14 |
| 7.1 Mounting position | 14 |
| 7.2 Test conditions | 14 |
| 7.3 External leak-tightness | 14 |
| 7.4 Torsion and bending | 14 |
| 7.5 Durability | 17 |
| 7.6 Zero governor performance test | 18 |
| 7.7 Pressure drop (fully open) | 21 |
| 7.8 Endurance | 21 |
| 7.9 Lock-up pressure | 21 |
| 7.10 Dynamic response test | 22 |
| 8 Marking, installation and operating instructions | 22 |
| 8.1 Marking | 22 |
| 8.2 Installation, operating and servicing instructions | 22 |
| 8.3 Warning notice | 22 |
| Annex ZA (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives | 23 |
| Tables | |
| 1: Connection sizes | 9 |
| 2: Maximum external leakage rates | 11 |
| 3: Torque and bending moment | 12 |
| 4: Gas pressure at inlet to the zero governor | 13 |

Figures

| | |
|---|----|
| 1: Arrangement for torsion test | 15 |
| 2: Arrangement for bending moment test | 16 |
| 3: Paint scratch test apparatus | 18 |
| 4: Performance test rig | 20 |
| 5: Characteristics of p_2 as p_1 varies | 20 |
| 6: Characteristics of p_2 as q varies | 21 |

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 February 1999, and conflicting national standards shall be withdrawn at the latest by February 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.

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.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-