



NSAI
Standards

Irish Standard
I.S. EN 16129:2013

Pressure regulators, automatic change-over devices, having a maximum regulated pressure of 4 bar, with a maximum capacity of 150 kg/h, associated safety devices and adaptors for butane, propane, and their mixtures

I.S. EN 16129:2013

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English Version

Pressure regulators, automatic change-over devices, having a maximum regulated pressure of 4 bar, with a maximum capacity of 150 kg/h, associated safety devices and adaptors for butane, propane, and their mixtures

Détendeurs, inverseurs automatiques, ayant une pression maximum de détente de 4 bar, avec une capacité maximale de 150 kg/h, dispositifs de sécurité associés et adaptateurs pour butane, propane et leurs mélanges

Druckregelgeräte, automatische Umschaltanlagen mit einem höchstem Ausgangsdruck bis einschließlich 4 bar und einem maximalen Durchfluss von 150 kg/h sowie die dazugehörigen Sicherheitseinrichtungen und Übergangsstücke für Butan, Propan und deren Gemische

This European Standard was approved by CEN on 9 March 2013.

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Contents

Page

Foreword.....	7
1 Scope.....	8
2 Normative references.....	8
3 Terms and definitions	10
3.1 General terms and definitions	10
3.2 Terms and definitions concerning gas.....	12
3.3 Terms and definitions concerning pressures.....	13
3.4 Terms and definitions concerning flow rates	14
4 Types of regulating devices	14
4.1 Introduction	14
4.2 Regulating device with a nominal regulated pressure specified by EN 437.....	15
4.3 Other regulating devices.....	15
5 Constructional characteristics	15
5.1 General	15
5.2 Materials	16
5.3 Special requirements	17
5.3.1 Pressure sensing subassembly (regulating devices only)	17
5.3.2 Regulation subassembly (regulating devices only)	17
5.3.3 Back pressure subassembly (regulating devices only)	17
5.3.4 Connection subassembly	18
5.3.5 Change over devices	20
5.4 Mechanical strength.....	21
5.4.1 Resistance to impact	21
5.4.2 Resistance to pressure	21
5.4.3 Strength of connections	21
5.5 Soundness.....	24
5.6 Mechanical endurance	24
5.6.1 Regulators	24
5.6.2 Automatic change over devices	25
5.6.3 Devices fitted with a manual closing device.....	25
5.6.4 Quick coupling device	25
5.6.5 Device with freely rotating outlet connection	25
5.7 Resistance to humidity changes	25
5.8 Resistance to corrosion.....	25
6 Performance characteristics.....	26
6.1 General	26
6.2 Regulators	26
6.2.1 Supply and regulated pressures for regulators to be used on installations where the final pressure is to EN 437	26
6.2.2 Supply and regulated pressures for fixed or adjustable regulators to be used on installations where the final pressure is not to EN 437	30
6.2.3 Variable regulators.....	31
6.3 Automatic change over devices	32
6.3.1 Supply and regulated pressures for automatic change over devices to be used on installations where the final pressure is to EN 437	32
6.3.2 Supply and regulated pressures for fixed or adjustable automatic change over devices to be used on installations where the final pressure is not to EN 437.....	33
6.3.3 Automatic change over device with integral variable regulator.....	34
6.3.4 Change over pressure.....	34
6.4 Adaptors	34

7	Test methods	35
7.1	General conditions	35
7.1.1	Type of test gas	35
7.1.2	Test conditions	35
7.1.3	Equivalence formulas	35
7.1.4	Test samples	36
7.2	Verification of constructional characteristics	36
7.2.1	Resistance to impact	36
7.2.2	Resistance to pressure	36
7.2.3	Mechanical strength of connections	37
7.2.4	Valve pad retention	42
7.2.5	Soundness	42
7.2.6	Mechanical endurance	43
7.2.7	Resistance to humidity changes	45
7.2.8	Resistance to corrosion	45
7.3	Verification of performance characteristics	45
7.3.1	General	45
7.3.2	Plotting of the performance curves for regulating devices	48
7.3.3	Performances of adaptors	49
7.3.4	Verification of first stage pressure for G.56 connection regulating devices	49
7.3.5	Soundness of the non return valve	50
8	Marking, packaging, instructions	50
8.1	General	50
8.2	Marking of the device	50
8.3	Packaging	51
8.4	Instructions for installation, use and maintenance	51
Annex A	(normative) Special requirements for devices fitted with pressure or flow rate operated safety functions	53
A.1	Regulating devices fitted with an over-pressure relief valve of a limited flow rate (PRV)	53
A.1.1	Definition	53
A.1.2	Constructional characteristics	53
A.1.3	Performance characteristics	53
A.1.4	Test methods	54
A.1.5	Regulating device marking	54
A.1.6	Instructions	54
A.2	Regulating devices fitted with an over-pressure shut off safety device (OPSO)	55
A.2.1	Definition	55
A.2.2	Constructional characteristics	55
A.2.3	Performance characteristics	55
A.2.4	Test methods	56
A.2.5	Regulating device marking	57
A.2.6	Instructions	57
A.3	Regulating devices fitted with an under-pressure shut off safety device (UPSO)	57
A.3.1	Definition	57
A.3.2	Constructional and performance characteristics	57
A.3.3	Test methods	57
A.3.4	Regulating device marking	58
A.3.5	Instructions	58
A.4	Regulating devices fitted with an excess flow valve (EFV)	58
A.4.1	Definition	58
A.4.2	Performance characteristics	58
A.4.3	Test methods	59
A.4.4	Regulating device marking	62
A.4.5	Instructions	62
A.5	Regulating devices fitted with a regulated outlet pressure limiter	63
A.5.1	Definition	63
A.5.2	Constructional and performance characteristics	63
A.5.3	Test method	63

A.5.4	Marking	64
A.5.5	Instructions	64
A.6	Two stage pressure limiting regulating device	65
A.6.1	Description	65
A.6.2	Constructional and performance characteristics	65
A.6.3	Test methods.....	65
A.6.4	Marking	65
A.6.5	Instructions	65
A.7	Additional diaphragm.....	66
A.7.1	Description	66
A.7.2	Constructional and performance characteristics	66
A.7.3	Performance characteristics.....	66
A.7.4	Test methods.....	66
A.7.5	Marking.....	66
A.7.6	Instructions	67
Annex B	(normative) Special requirements for devices fitted with a thermal shut off system	68
B.1	Thermal shut off valve	68
B.1.1	Definition	68
B.1.2	Constructional characteristics	68
B.1.3	Performance characteristics.....	68
B.1.4	Test methods.....	68
B.1.5	Marking	69
B.1.6	Instructions	69
B.2	Thermal spindle on devices for self closing valve connection.....	69
B.2.1	Definition	69
B.2.2	Constructional characteristics	69
B.2.3	Performance characteristics.....	69
B.2.4	Test methods.....	70
B.2.5	Marking.....	70
B.2.6	Instructions	70
Annex C	(normative) Special requirements for devices under extreme temperature conditions (temperatures below -20 °C)	71
C.1	Scope.....	71
C.2	Requirements	71
C.2.1	Material	71
C.2.2	Extreme temperature test	71
C.3	Conditioning.....	71
C.4	Marking.....	71
C.5	Instructions	71
Annex D	(normative) Regulating devices for gas cylinders to supply appliances installed in caravans, motor caravans or freshwater boats	72
D.1	Scope.....	72
D.2	Installations and connections	72
D.3	Pressures and flow rate	74
D.4	Pressure safety functions.....	75
D.5	Automatic change over system ("kit")	75
D.6	Resistance to vibration	76
D.7	Marking.....	76
D.8	Instructions	77
Annex E	(normative) Complementary test requirements for non-metallic thermoplastic or thermal setting materials used in the construction of devices	78
E.1	Scope.....	78
E.2	Materials	78
E.3	Special requirements	79
E.3.1	Accelerated ageing	79
E.3.2	Resistance to hydrocarbons.....	80
E.3.3	Resistance to cracking under stress and when chemical agents are present.....	80

E.3.4	Characteristics relating to fire resistance	80
E.4	Special conditions for carrying out the tests mentioned in the body of the standard	80
E.4.1	Resistance to impact (see 5.4.1 and 7.2.1)	80
E.4.2	Mechanical resistance of connections (see 5.4.3 and 7.2.3).....	80
E.4.3	Soundness (see 5.5 and 7.2.5)	81
E.5	Sampling and order of tests.....	81
Annex F (normative) Requirements for elastomeric reinforced diaphragms.....		82
Annex G (normative) Inlet connections		83
Annex H (normative) Outlet connections		98
Annex I (informative) Test method for resistance to corrosion.....		119
I.1	Principle	119
I.2	Reagents	119
I.2.1	Saline solution	119
I.2.2	Compressed air.....	119
I.2.3	Salt mist	119
I.3	Apparatus.....	120
I.4	Test method	121
I.4.1	Method of exposure of devices	121
I.4.2	Duration of tests	121
I.4.3	Checks	121
I.4.4	Cleaning of devices	122
I.5	Results	122
Annex J (informative) Method for measuring leaks.....		125
J.1	Scope	125
J.2	Diagram of the test bench	125
J.3	Coefficient K	126
J.3.1	Method	126
J.3.2	Calculations	126
J.4	Measurement of the leak	126
J.4.1	Method	126
J.4.2	Calculations	126
J.5	Checks	127
Annex K (normative) Special requirements for low pressure fixed regulators fitted with two or three outlets for outdoor use.....		128
K.1	Scope	128
K.2	Constructional characteristics.....	128
K.3	Performance characteristics	128
K.4	Test methods	128
K.4.1	Test on the shut off devices.....	128
K.4.2	Performance test	129
K.5	Marking	130
K.6	Instructions.....	130
Annex L (normative) Special requirements for regulators fitted with an inlet valve		131
L.1	Scope	131
L.2	Definition.....	131
L.3	Constructional characteristics.....	131
L.4	Performance characteristics : mechanical strength	131
L.5	Test methods	131
Annex M (normative) Devices for gas cylinders to supply appliances installed in seawater boats.....		132
M.1	Scope	132
M.2	General.....	132
M.3	Maximum guaranteed flow rate.....	132
M.4	Regulating devices fitted with a pressure relief valve	132
M.5	Vent	132
M.6	Connections.....	132

M.7	Material	132
M.8	Corrosion.....	132
M.8.1	General	132
M.8.2	Corrosion requirement.....	133
M.8.3	Corrosion test method	133
M.9	Marking	133
M.10	Instructions for use and maintenance	133
Annex N	(normative) Alternative possible seal	134
N.1	Scope.....	134
N.2	Dimensions.....	134
N.3	Materials	134
N.4	Markings	134
Annex ZA	(informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2009/142/EC (for pressure regulators only).....	136
Bibliography.....		138

Foreword

This document (EN 16129:2013) has been prepared by Technical Committee CEN/TC 181 “Dedicated liquefied petroleum gas appliances”, the secretariat of which is held by AFNOR.

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 December 2013, and conflicting national standards shall be withdrawn at the latest by December 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12864:2001, EN 13786:2004+A1:2008 and EN 13785:2005+A1:2008.

This document 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 document.

The main technical changes that have been made since the latest edition are as follows:

- the merging of EN 12864, EN 13785 and EN 13786 and their amendments;
- the extension of the scope to adaptors;
- the addition of requirements for taking into account pressure losses of gas installations;
- the removal from this standard of drawing of connections described in other standards;
- the improvement of testing methods;
- additional corrections.

Change-over devices and adaptors within the scope of this standard, are not covered by the EU Directive for gas appliances (2009/142/EC).

Items relating to quality assurance systems, production testing and particularly certificates of conformity are not covered in this standard.

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, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This European Standard defines the constructional and operational characteristics, the safety requirements, test methods and the marking of regulators and automatic change-over devices having a maximum regulated pressure of 4 bar, with a maximum capacity of 150 kg/h, for use with butane, propane and their mixtures in the vapour phase.

This European Standard also applies to the safety devices which are included within regulating devices covered by this standard. The characteristics of these safety devices are given in Annexes A and B.

This European Standard also includes the requirements for:

- adaptors for connecting to self closing valves;
- auxiliary safety devices.

For the purpose of this European Standard:

- regulators and automatic change-over devices are referred to as "regulating devices";
- regulators, automatic change-over devices and adaptors are referred to as "devices".

The requirements apply to devices used in locations where the temperature likely to be reached during use is between $-20\text{ }^{\circ}\text{C}$ and $+50\text{ }^{\circ}\text{C}$. Additional requirements for devices to be used at temperatures below $-20\text{ }^{\circ}\text{C}$ are given in Annex C.

Additional requirements for regulating devices intended to be used in caravans, motor caravans and freshwater boats are given in Annex D.

Additional requirements for regulating devices intended to be used in seawater boats are given in Annex M.

For specific use in caravans motor caravans and boats (freshwater and seawater), the automatic change over device function may also be carried out by an assembly of regulators, forming an "automatic change over device system" as defined in 3.1.9.

For installation rules of devices and their possible associated safety devices, reference should be made to national regulations in force in the member countries.

All connections and the countries in which they are used are given in Annexes G and H.

This European Standard defines only specific connections which are not defined in other standards (e.g. EN 15202 for cylinder valve connections).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 437, *Test gases — Test pressures — Appliances categories*

EN 521, *Specifications for dedicated liquefied petroleum gas appliances — Portable vapour pressure liquefied petroleum gas appliances*

EN 549, *Rubber materials for seals and diaphragms for gas appliances and gas equipment*

EN 560, *Gas welding equipment — Hose connections for equipment for welding, cutting and allied processes*

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