



**NSAI**  
Standards

Irish Standard  
I.S. EN 1809:2014+A1:2016

# Diving equipment - Buoyancy compensators - Functional and safety requirements, test methods

**I.S. EN 1809:2014+A1:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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NSAI  
1 Swift Square,  
Northwood, Santry  
Dublin 9

T +353 1 807 3800  
F +353 1 807 3838  
E standards@nsai.ie  
W NSAI.ie

Sales:  
T +353 1 857 6730  
F +353 1 857 6729  
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

## National Foreword

I.S. EN 1809:2014+A1:2016 is the adopted Irish version of the European Document EN 1809:2014+A1:2016, Diving equipment - Buoyancy compensators - Functional and safety requirements, test methods

This document does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

**Compliance with this document does not of itself confer immunity from legal obligations.**

*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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EUROPEAN STANDARD

**EN 1809:2014+A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2016

ICS 97.220.40

Supersedes EN 1809:2014

English Version

## Diving equipment - Buoyancy compensators - Functional and safety requirements, test methods

Équipement de plongée - Bouée d'équilibrage -  
Exigences fonctionnelles et de sécurité, méthodes  
d'essai

Tauch-Zubehör - Tariermittel - Funktionelle und  
sicherheitstechnische Anforderungen, Prüfverfahren

This European Standard was approved by CEN on 14 May 2014 and includes Amendment 1 approved by CEN on 11 January 2016.

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, 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 United Kingdom.



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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## European foreword

This document (EN 1809:2014+A1:2016) has been prepared by Technical Committee CEN/TC 136 “Sports, playground and other recreational facilities and equipment”, the secretariat of which is held by DIN.

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 September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

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 includes Amendment 1 approved by CEN on 2016-01-11.

This document supersedes A1 EN 1809:2014 A1.

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

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 on personal protective equipment (PPE) 89/686/EEC.

For relationship with EU Directive on personal protective equipment (PPE) 89/686/EEC, see informative Annex ZA, which is an integral part of this document.

In comparison with A1 *deleted text* A1 EN 1809:1997, the following significant changes A1 had A1 been made:

- a) updating of definitions;
- b) updating of test methods;
- c) introduction of pass/fail criteria for practical performance test;
- d) update of marking and instructions for use.

According to the CEN-CENELEC Internal Regulations, the national standards organizations 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.

## EN 1809:2014+A1:2016 (E)

### 1 Scope

This European Standard specifies functional, safety requirements and test methods applicable to inflatable type buoyancy compensating devices intended to provide divers with means for controlling buoyancy and if applicable, means for carrying the breathing equipment and/or carrying the weights.

This European Standard is not applicable to other kinds of personal equipment such as life preservers, personal flotation or rescue devices including combined buoyancy and rescue devices.

### 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 250, *Respiratory equipment - Open-circuit self-contained compressed air diving apparatus - Requirements, testing and marking*

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

#### 3.1

##### **buoyancy compensator**

##### **BC**

inflatable type device that provides the diver with a means for controlling buoyancy

#### 3.2

##### **buoyancy**

upward force exerted upon the immersed volume of a body

#### 3.3

##### **maximum buoyancy**

maximum upward force of a fully inflated BC

#### 3.4

##### **breathing apparatus**

system for providing the user with breathable gas

Note 1 to entry: The breathing apparatus may be, e.g. open circuit according to EN 250, re-breathers according to EN 14143 or umbilical supplied according to EN 15333-1 and EN 15333-2.

#### 3.5

##### **oral inflation device**

device that permits inflation of the BC by mouth

#### 3.6

##### **compressed gas inflation device**

device to inflate the BC with breathable gas mixture from the breathing apparatus or an independent source



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