

Diving accessories — Combined buoyancy and rescue devices — Functional and safety requirements, test methods

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British Standard

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English version

Diving accessories — Combined buoyancy and rescue devices — Functional and safety requirements, test methods

Accessoires de plongée — Bouées d'équilibrage et
de sauvetage combinées — Exigences
fonctionnelles et de sécurité, méthodes d'essai

Tauch-Zubehör — Kombinierte Tarier- und
Rettungsmittel — Funktionelle und
sicherheitstechnische Anforderungen,
Prüfverfahren

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Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 136, Sports, playground and other recreational 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of an identical text or by endorsement, at the latest by January 2000, and conflicting national standards shall be withdrawn at the latest by January 2000.

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.

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1 Scope

This standard specifies functional and safety requirements and test methods applicable to combined buoyancy and rescue devices.

This standard is applicable to combined buoyancy and rescue devices for use by divers as defined in 3.1.

This standard does not apply to buoyancy compensators, which are dealt with in EN 1809.

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 publication referred to applies.

EN 250, *Respiratory equipment — Open-circuit self-contained compressed air diving apparatus — Requirements, testing, marking.*

EN 394:1993, *Lifejackets and personal buoyancy aids — Additional items.*

EN 1809:1997, *Diving accessories — Buoyancy compensators — Functional and safety requirements, test methods.*

SS 019102^{*)}, *Colour atlas — NCS Natural Colour System.*

IEC 50(845):1987, *International Electrotechnical Vocabulary; Chapter 845: Lighting.*

3 Definitions

For the purposes of this standard the following definitions apply.

3.1

combined buoyancy and rescue device (CBRD)

inflatable type device that provides the diver with means for controlling buoyancy and hold him in a head-up position at the surface with freeboard as stated even if he is unconscious

3.2

buoyancy compensator

inflatable type device that provides the diver with means for controlling buoyancy
[EN 1809:1997]

3.3

buoyancy

the upward force exerted upon the immersed volume of a body
[EN 1809:1997]

3.4

maximum buoyancy

the maximum lifting force of a CBRD as determined in accordance with 5.4 of this standard
[EN 1809:1997]

3.5

SCUBA

acronym for self-contained underwater breathing apparatus as described in EN 250
[EN 1809:1997]

3.6

oral inflation device

a device that permits inflation of the CBRD by mouth
[EN 1809: 1997]

3.7

mechanical inflation device

a device to inflate the CBRD with a breathing mixture from the SCUBA or an independent source

3.8

manual deflation device

a manually operated device that permits deflation of the CBRD
[EN 1809:1997]

3.9

automatic pressure relief device

a device which automatically prevents overpressurization of a CBRD
[EN 1809:1997]

3.10

harness

the means by which the CBRD is secured to the diver's body
[EN 1809:1997]

3.11

fixture

the means by which the cylinder(s) (of the SCUBA) are fixed to the CBRD
[EN 1809:1997]

3.12

independent inflation device

an inflation device which is actuated manually to effect a rapid increase in buoyancy independent of the breathing mixture from the SCUBA
[EN 1809:1997]

3.13

cylinder(s)

high pressure containers which can supply breathing mixture for divers
[EN 1809:1997]

^{*)} Available from Standardiseringskommissionen i Sverige (SIS) PO Box 3295 Tegnérsgatan 11 S-10266 Stockholm