ICS 39.040.10
CCS Y 11

NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 18828-2022

Replacing GB/T 18828-2013

Horology - Diver watches

Issued on: November 8, 2022 **Implemented on: June 1, 2023**

Issued by: State Administration for Market Regulation, China National Standardization Administration

Table of Contents

foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules for Standardization Documents"

drafting.

This document replaces GB/T 18828-2013 "Diving Watch". Compared with GB/T 18828-2013, except for structural adjustments and editorial changes

In addition, the main technical changes are as follows.

a) Changed the "Scope" and included the "Naming" chapter of the.2013 edition after revision (see Chapter 1, Chapter 1 and Chapter 1 of the.2013 edition

Chapter 4);

b) Changed "Terms and Definitions" (see Chapter 3, Chapter 3 of the.2013 edition);

c) The "Requirements" and "Test Methods" chapters of the.2013 edition are merged into the same chapter "Requirements and Test Methods", and the "Practice

"International significance" chapter was revised and included (see Chapter 4, Chapter 5, Chapter 6 and Chapter 7 of the.2013 edition);

d) Added "overview" in "requirements and test methods", including "temperature", "visual inspection", "tested product configuration", "practical significance", "potential

Water time indicator" and "type inspection and 100% full inspection", of which "visual inspection" "actual meaning" and "diving time indication

Device" and "type inspection and 100% full inspection" were revised and incorporated from the relevant content of the.2013 edition (see 4.1,.2013 edition

Chapter 5, 6.1, 7.1, 7.2 and 7.3);

e) Changed the "visibility" requirements and test methods (see 4.2, 6.2 of the.2013 edition);

f) The requirements and test methods for "antimagnetic performance" have been changed (see 4.3, 6.3 of the.2013 edition);

g) Added "temperature cycle" and "salt spray test (attached table)" in "requirements and test methods" (see 4.4, 4.5);

h) The requirements and test methods for "shockproof performance" have been changed (see 4.6 and 4.8, 6.4 of the.2013 edition);

i) The requirements and test methods for "salt water resistance" are deleted (see 6.5, 7.3.3 of the.2013 edition);

j) Added "Waterproof performance" in "Requirements and test methods", including "Functional devices in shallow water", "Crowns and other setting devices

Water resistance when force is applied", "Functional devices under excess water pressure" and "Water resistance under excess water pressure", some of the contents are from the.2013 edition.

Relevant content was revised and included (see 4.7, 6.6, 6.7.2, 6.10, 7.3.4, 7.3.6 and 7.3.7 of the.2013 edition);

k) The requirements and test methods of "Anti-external force performance of accessories" have been changed (see 4.9, 6.7.1 and 7.3.1 of the.2013 edition);

l) Delete the requirements and test methods of "thermal shock resistance" (see 6.8, 7.3.5 of the.2013 edition);

m) Changed the "condensation test" (see 4.10, 7.3.8 of the.2013 edition);

n) Changed the "mark" (see Chapter 5, Chapter 8 of the.2013 edition);

o) Added "use and maintenance recommendations" (see Chapter 6 and Appendix D);

p) Added the normative appendix "Saturation Diving Diving Table", including "Overview", "Requirements and tests for operation under helium overpressure (type inspection

inspection)" and "Mark", modified from the relevant content of the.2013 edition (see Appendix A, 6.11 and Appendix A of the.2013 edition);

q) An informative appendix "Airtightness under superpressure" has been added, which is revised from the relevant content of the.2013 edition (see Appendix B, the.2013 edition

6.9 and 7.3.2);

r) Added an informative appendix "Diving Chart" (see Appendix C).

This document is equivalent to ISO 6425.2018 "Watch and Diving Watches".

Please note that some contents of this document may refer to patents. The issuing agency

of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the requirements and test methods for diving watches and saturation diving watches for deep water diving.

This document applies to dives capable of withstanding a depth of at least 100m and equipped with a protective measuring system to indicate visibility in darkness

diving watch.

In addition, this document identifies the marks used by the licensed manufacturer.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references

For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

this document.

GB/T 26716-2011 Clocks Antimagnetic Watches (ISO 764.2002, IDT)

GB/T 30106-2013 Waterproof watches for watches and clocks (ISO 22810.2010, IDT)

GB/T 38022-2019 Clocks and Shockproof Watches (ISO 1413.2016, IDT)

GB/T 40359-2021 Test methods and requirements for photoluminescent coatings on timing instruments (ISO 17514.2004, IDT)

spraytests)

Note. GB/T 10125-2021 Artificial atmosphere corrosion test salt spray test (ISO 9227.2017, MOD)

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1

Scuba divingSCUBAdiving

Underwater diving in which divers breathe underwater using self-contained breathing apparatus (scuba).

3.2

saturation diving

Diving techniques designed to reduce the risk of decompression sickness when divers operate in deep water for extended periods of time.

NOTE. In saturation diving, the diver lives in a pressurized environment corresponding to the depth of the dive, which can be a hyperbaric chamber. This dive can be maintained for several

Weekly decompression to surface pressure only once at the end of the diver's mission. By limiting the number of decompression times in this way, the decompression rate can be greatly reduced.

disease risk.

3.3

Diving watch divers'watch

A watch designed to withstand scuba diving.

3.4

A dive watch designed to withstand saturation diving.