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Environmental test method for diving robot and components- Hydrostatic pressure test

水下机器人整机及零部件基本环境试验方法 水静压力试验方法

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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:

Please note that some of the contents of this document may involve patents: The issuing organization of this document does not assume the responsibility for identifying patents:

This document was proposed by the China Machinery Industry Federation:

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Basic environment of underwater robot complete machine and parts Test method Hydrostatic pressure test method

1 Scope

This document describes the hydrostatic pressure test method for the underwater robot and its components, and gives the hydrostatic pressure test method for the underwater robot The test equipment and test conditions were designed, the severity level was proposed and the test process was established:

This document is applicable to the assessment or evaluation of the underwater robot and its components in deep water, shallow water, sea water or fresh water working environment:

Ability to adapt to static pressure environment:

2 Normative references

GB/T 3766-2015

3 Terms and definitions

The following terms and definitions apply to this document: 3:1 underwater robot divingrobot When performing tasks, the robot's entire body is located below the water surface and in direct contact with the water: 3:2 Hydrostatic pressure When an object is in an underwater environment, the pressure exerted on the surface of the object by liquid water in a non-flowing state: 3:3 Test Instructions A technical document used to describe in detail the test sample information, test objectives, test methods, data recording and processing methods and other technical details: 3:4 Rated test pressure ratedtestpressure The maximum test pressure required for the test sample during the hydrostatic pressure test: 3:5 Design pressure designpressure The hydrostatic pressure to which an underwater

robot is subjected when operating at its maximum designed water depth: 3:6 recovery The treatment done to stabilize the performance of the test sample before the final test: