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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 11686-1989

Replacing GB/T 11686-2002

**Small craft - Waste systems - Part 1: Waste water retention
systems**

(English Translation)

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Foreword

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

Drafting.

This document is Part 1 of GB/T 11686 "Small Boat Wastewater Systems". GB/T 11686 has the following parts published.

---Part 1: Wastewater Collection and Storage System.

This document replaces GB/T 11686-2002 "Small Boat Toilet Wastewater Collection System". Compared with GB/T 11686-2002, except for the structure...

Aside from adjustments and editorial changes, the main technical changes are as follows.

- a) General requirements have been added (see 4.1, 4.2, and 4.9);
- b) Added requirements for pump outlet accessories (see 9.4).

This document is equivalent to ISO 8099-1:2018 "Small boat wastewater systems - Part 1: Wastewater collection and storage".

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was submitted by China State Shipbuilding Corporation Limited.

This document was proposed and is under the jurisdiction of the National Technical Committee on Standardization of Small Boats (SAC/TC241).

Introduction

The wastewater on the small boat mainly comes from domestic sewage, namely the excrement discharged by the people on board and other wastewater mixed with excrement.

The wastewater is highly polluting and cannot be discharged directly. It needs to be collected through a collection and storage system and then treated by a unified treatment system.

Preventing environmental pollution. Separating the storage and processing systems into two parts improves compatibility and promotes the rational use of resources. GB/T 11686 the purpose is to specify the design, construction and installation requirements of small boat wastewater systems, which play an important role in protecting the river and sea environment. It consists of the following parts.

---Part 1: Wastewater Collection System. The purpose is to specify the design and construction of a temporary wastewater collection system for small boats (for subsequent treatment).

Installation requirements.

---Part 2: Wastewater Treatment System. The purpose is to specify the design, construction, and installation requirements for wastewater treatment systems for small boats.

Small boat wastewater system Part 1: Wastewater Collection and Storage System

1 Scope

This document specifies the design, construction, and installation requirements for temporary wastewater storage (for subsequent treatment) systems. This document applies to the hull of submarines.

Small boats with a length (LH) not exceeding 24m.

This document does not cover wastewater treatment systems.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

ISO 228-1 Pipe threads without a pressure seal joint - Part 1: Dimensions, tolerances and nomenclature
ISO 9093 Small boat sea valve and accessories penetrating the hull
Note. GB/T 19317-2024 Small boat sea-passing plugs and accessories penetrating the hull (ISO 9093:2020, IDT)
ISO 10133 Smallcraft Electrical Systems - Extra-low Voltage DC Devices
Note. GB/T 19311-2003 Ultra-low voltage DC devices for electrical systems of small boats (ISO 10133:2000, IDT)
ISO 13297 Smallcraft - Electrical Systems - Alternating

Current and DC Power Supply Note. GB/T 18814-2024 AC and DC devices for electrical systems of small boats (ISO 13297:2020, IDT)

3 Terms and Definitions

The following terms and definitions apply to this document.

retention system

Sanitary equipment consisting of interconnected hoses, pipes, storage containers (3.6), and accessories, used to receive and retain wastewater (3.2) for subsequent use.

Emissions and disposal.

sewage

Human excrement and wastewater, including flushing water, discharged from toilets and other storage tanks intended to receive or retain human excrement.

Accessibility

The ability to inspect, dismantle, or maintain without removing permanent structures from the vessel.