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

**GB/T 27888.1-2011**

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**Ship and marine technology -- Drainage systems on ships and  
marine structures -- Part 1: Sanitary drainage-system design**

船舶与海上技术 船舶与海上结构物的排水系统 第1部分：卫生水排放系统设计

**(English Translation)**

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### Foreword

GB/T 27888 "Ships and marine technology - Ship and marine structures drainage system" is divided into five sections.

- Part 1. Sanitary water discharge system design;
- Part 2. Gravity water drain system and sanitary drains;
- Part 3. Emission and sanitation water piping vacuum system;
- Part 4. water sanitation and wastewater discharge pipe;
- Part 5. decks, holds and pool drainage.

This section GB/T 27888 Part 1.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with ISO 15749-1:2004 "Ships and marine technology - Ship and marine structures - drainage systems Part 1. Sanitary water discharge system design. " Consistency correspondence between this part of the normative references in international instruments and in our country the following documents.

- GB/T 27888.2 Ships and marine technology - Ship and marine structures - drainage systems - Part 2. Guardian gravity system Raw water discharge and drainage pipes (ISO 15749-2:2004, MOD);
- GB/T 27888.3 Ships and marine technology - Ship and marine structures - drainage systems - Part 3. Guardian of the vacuum system Emission and raw water pipelines (ISO 15749-3:2004, IDT);
- GB/T 27888.4 Ships and marine technology - Ship and marine structures - drainage systems - Part 4. sanitation and water discharge Sewage pipe (ISO 15749-4:2004, IDT);
- GB/T 27888.5 Ships and marine technology - Ship and marine structures - drainage systems - Part 5. decks, holds and Pool drain (ISO 15749-5:2004, IDT).

This part is proposed by the China State Shipbuilding Corporation.

This part of the National Marine Machinery Standardization Technical Committee Piping Accessories Technical Committee (SAC/TC137/SC3) centralized.

This section drafted by. China Shipbuilding Technology and Economy Research Institute, Wuxi Jinyang Pipe Co., Ltd., China Shipbuilding Chengxi shipbuilding Limited.

## 1 Scope

This section GB/T 27888, together with ISO 15749-2 ~ 15749-5 applies to ships and offshore structures in residential areas and grain storage Wastewater discharge system areas (health water discharge system) planning and design.

Storm drainage decks, holds and swimming pools see ISO 15749-5.

GB/T 27888 (all parts) gives the basic rules and minimum requirements for health requirements and maritime environmental protection.

This section does not apply to produce combustible gas/oxygen mixture of oil and chemical pollution of water pipeline system.

## 2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

ISO 727-1 under pressure fittings for unplasticized polyvinyl chloride (PVC-U), chlorinated polyvinyl chloride or acrylonitrile (PVC-C), butadiene Fittings or styrene (ABS) with plain sleeves - Part 1. Metric series [Fittings made from unplasticized poly (Vinyl chloride) (PVC-U), chlorinated poly (vinyl chloride) (PVC-C) or acrylonitrile/butadiene /styrene (ABS) with plain sockets for pipes under pressure-Part 1. Metric series] ISO 1461 Steel hot-dip galvanized layer assembly technical requirements and test methods (Hot dip galvanized coatings on fabricated iron and steel articles-Specifications and test methods) Health gravity water discharge systems. ISO 15749-2 Ships and marine technology - Ship and marine structures - drainage systems - Part 2 Release and discharge piping (Ships and marine technology-Drainage system on ships and marine structures-Part 2.

Sanitary drainage, drain piping for gravity systems) ISO 15749-3 Ships and marine technology - Ship and marine structures - drainage systems - Part 3. Sanitary water discharge of the vacuum system Release and discharge piping (Ships and marine technology-Drainage system on ships and marine structures-Part 3.

Sanitary drainage, drain piping for vacuum systems) ISO 15749-4 Ships and marine technology - Ship and marine structures - drainage systems - Part 4. water sanitation and sewage discharge Li tube (Ships and marine technology-Drainage system on ships and marine structures-Part 4.

Sanitary drainage, sewage disposal pipes) ISO 15749-5 Ships and marine technology - Ship and marine structures - drainage systems - Part 5. decks, cargo spaces and swimming pools Drainage

(Ships and marine technology - Drainage systems on ships and marine structures - Part 5. Drainage of decks, cargo spaces and swimming pools) Performance test on sewage treatment equipment emissions from international recommended standards and guidelines IMOMEPC.2 (VI) 1977 Nian 1 Yue 1) IMO

1) publication of the International Maritime Organization, London. Available (London W1V, Piccadilly 101-104) in the Press Secretariat of the International Maritime Organization.

[IMO Publication MEPC.2 (VI)

Recommendation on international effluent standards and guide-lines for performance tests for sewage treatment plants, January 1977] Ship sewage system operation, inspection and maintenance guidelines IMOMSC/Circ.648 and IMO Annex