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

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**Ships and marine technology - Bunker fuel mass flow meters
on receiving vessel - Requirements**

船舶与海上技术 接收船上加注燃料质量流量计 要求

(English Translation)

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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.

This document is equivalent to ISO 21562:2020 "Requirements for fuel mass flow meters for receiving ships for bunkering in ships and offshore technology".

1 Scope

This document specifies the requirements for Coriolis Mass Flow Meters (MFM) systems installed on board ships for measuring the flow of incoming fuel.

This document specifies the metrological, safety and testing requirements for the MFM system on the receiving ship. This document is a revision of ISO 8217, ISO 22192 and OIMLR117. Replenish.

This document does not apply to mass flow meters for fuel transfer, nor to the entire bunkering operation, such as the bunkering system as a whole and the delivery system.

This document does not apply to cryogenic fuels such as liquefied natural gas.

For Coriolis mass flow meter systems used in fuel transfer, refer to ISO 22192.

2 Normative references

This document has no normative references.

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Filling the bunker

Refilling bunker fuel Class F fuel oil provided for ship propulsion and/or operation.

Note: For the specifications of Class F fuel oil, see ISO 8217.

3.2 Mass flow meter mass flow meter; MFM

Equipment used to directly measure and display the quantity of fuel oil (3.1) being bunkered on board a ship.

3.3

The maximum stress to which a piping system component may be subjected based on materials and design calculations.

3.4 Maximum mass flow rate

Maximum measurement value of an MFM system (3.5) that meets the measurement accuracy requirements.

Note: The maximum value is generally determined based on the application.

3.5 MFMSystem

Fuel oil bunkering (3.1) metering system, comprising a mass flow meter (3.2) and its accessories, a connection between the ship's fuel tank main pipe and the mass flow meter Pipes and seals.