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

GB/T 44678-2024

**Ships and marine technology - Check valves for use in low
temperature applications - Design and testing requirements**

船舶和海上技术 船用超低温止回阀 设计与试验要求

(English Translation)

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Table of Contents

Preface	
1 Scope	
2 Normative references	
3 Terms and Definitions	
4 Pressure temperature level	
4.1 Media Type	
4.2 Working pressure and design temperature	
5 Design	
5.1 Check valve basic structure	
5.2 Basic material requirements	
5.3 Valve body	
5.4 Valve cover	
5.5 Valve disc	
5.6 Gasket	
5.7 Valve seat	
5.8 Hinges and hinge pins (if applicable)	
5.9 Bolts and nuts	
6 Surface treatment	
7 Welding and heat treatment	
7.1 Welding	
7.2 Heat treatment	
8 Testing and Inspection	
8.1 Material inspection	
8.2 Nondestructive testing	
8.3 Dimensional inspection	
8.4 Visual inspection	
8.5 Heat treatment inspection	
8.6 Pressure test	
8.7 Fire test	
8.8 Low temperature test	
9 Logo	
Appendix A (Informative) Ultra-low temperature check valve---Example	

Reference

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 20602:2019 "Ships and offshore technology - Design and test requirements for cryogenic check valves for marine use".

The following minimal editorial changes were made to this document.

--- Incorporates the amendments to ISO 20602:2019/Amd.1.2021. The outer margins of the clauses involved are indicated by vertical Double lines (||) are marked;

--- Corrected the typographical errors in the international standards and modified some standard names in Chapter 2;

--- Corrected the typographical errors in the international standards and modified the density of nitrogen in Table 1;

---NPS is changed to NPS(DN), see 5.3.2.3.2;

--- Corrected the typographical errors in the international standard and modified the corresponding chapter numbers of f), g) and h) in 8.8.3.

1 Scope

This document specifies the design, Manufacturing and testing requirements.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to this document.

Note: GB/T 12220-2015 Industrial valve marking (ISO 5209:1977, MOD) ISO 28921-1 Industrial valves - Isolation valves for cryogenic use - Part 1: Design, manufacture and product testing (Industrialvalves-ting) API594 flanged, lug, wafer and butt check valves welding ASMEB16.11 Forged Fittings, Socket-Welding and Threaded ASMEB16.34.2017 Valves-Flanged, Threads, and Welding End) ASMEB46.1 Surface Texture (Surface Roughness, Waviness and Pattern Direction) Roughness, Waviness, and Lay]] ASME BPVC Sec. VIII Div. 1..2018 Pressure Vessels

temperatureService) Service, or Both)