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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 40516-2021

Metal valves for use in marine J-flanged pipe face-to-face and centre-to-face dimensions

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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 of Standardization Documents"

Drafting.

The translation method used in this document is equivalent to ISO 17602.2014 ``Metal Valve Structure of Flange Piping System for Ships and Offshore Technology

Spend".

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 11698-2008 Structural length of marine flanged metal valve (ISO 5752.1982, MOD)

---GB/T 13402-2019 Large diameter steel pipe flange (ISO 7005-1.2011, NEQ)

This document has made the following editorial changes.

---Change the standard name to the structural length of the J-type marine flanged metal valve.

This document was proposed and managed by the National Marine Machinery Standardization Technical Committee (SAC/TC137).

Drafting organizations of this document. China Shipbuilding Industry Comprehensive Technology and Economic Research Institute, Dalian Shipbuilding Industry Group Co., Ltd., Dalian Marine Valve

Limited company.

1 Scope

This document specifies the basic series of the structural length of metal valves with J-type flange connections. The structural length of each series conforms to

Requirements in ISO 7005-1, ISO 7005-2 and ISO 7005-3 or other JIS standards.

The range of pressure levels, represented by "K", is 5, 10, 16, 20, 30, 40 and other provisions in ISO 5752.

The range of nominal size is represented by "DN" or "A", which are 15, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150,.200, 250, 300,

350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 900, 1000, 1200.

Note. According to relevant information, the rated pressure of K series flanges at room temperature (not exceeding 120°C) is roughly as follows.

Pressure rating 5K 10K 16K 20K 30K 40K

Rated pressure (normal temperature) 0.7MPa 1.4MPa 2.2MPa 3.4MPa 5.1MPa 6.8MPa

The pressure rating varies with valve material, size and type, please refer to relevant product standards. Details about the pressure ratings of K series flanges

For details, please refer to the relevant JIS standards in the references. JISF7300 specifies the comprehensive selection of the valves listed in Table 1 to Table 5 in this document

Choose a guide.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

ISO 5752 flanged pipe system metal valve structure length (Metalvalvesforuseinflangedpipesystems-

Face-to-faceandcentre-to-facedimensions)

ISO 7005-1 Pipe Flanges Part 1.Steel Flanges for Industrial and General Purpose Piping Systems (Pipeflanges-Part 1.

Steelflangesforindustrialandgeneralservicepipingsystems)

ISO 7005-2 Metal Flanges Part 2.Cast Iron Pipe Flanges (Metalicflanges-Part 2.Castironflanges)

ISO 7005-3 Metal Flanges Part 3.Copper Alloy and Composite Flanges (Metalicflanges-Part 3.Copperaloyand

compositeflanges)

ISO 8277 Ships and Marine Technology Pipeline Engineering and Machinery Information Transmission (Shipsandmarinetechnology-

Pipeworkandmachinery-Informationtransfer)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Nominalsize

DN(A)

A combination of letter and number size identification of piping system components for reference purposes.

Note 1.It consists of the letter DN followed by a dimensionless integer number. This number and the characteristic ruler such as the aperture or outer diameter (in mm) of the end connector

Inch is not directly related.