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

GB/T 36664-2018

**Ships and marine technology - Ship's mooring and towing
fittings - Steel rollers**

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Table of Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 classification

4.1 Type

4.2 Nominal size

5 size

6 materials

7 structure

7.1 The roller of the cable guide (type C) shall be machined from steel or steel.

8 Manufacturing and inspection

8.1 All surfaces of the cable guide rollers shall be free of visible imperfections and defects.

8.2 All surfaces in contact with the rope shall be smooth and free of burrs.

8.4 All rotating parts should be equipped with grease fittings.

9 mark

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to ISO 13755.2012 "ship and marine technology ship mooring and towing equipment guide cable rolling wheel".

This standard has made the following editorial changes.

--- Added the informative Appendix NA to explain the mark.

This standard is proposed and managed by the National Ship Armor Standardization Technical Committee (SAC/TC129).

This standard was drafted. Dalian Shipbuilding Industry Group Co., Ltd.

1 Scope

This standard specifies the design, dimensions and technical requirements of the cable guide rollers.

This standard applies to the design, manufacture and acceptance of the cable guide rollers.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 13767 Ship and marine technology ship mooring and towing equipment side wheel guides (Shipsandmarinetech-nology-Ship'smooringandtowingfittings-Shipsiderolerfairleads)

ISO 13776 Ship and marine technology ship mooring and towing equipment vertical roller guides (Shipsandmarinetech-nology-Ship'smooringandtowingfittings-Pedestalfairleads)

IMOCircularMSC/Circ.1175 Ship Towing and Mooring Equipment Guide (Guidanceonshipboardtowingand Mooringequipment)

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Safe working load safeworkingload; SWL

The maximum load that a mooring line is allowed to withstand under normal operating conditions, in kilohertz (kN).

4.1 Type

The cable guide rollers are divided into the following three types according to the structure.

Type A---No upper dust cover cast steel cable guide roller;

Type B---with upper dust cover cast steel cable guide roller;

Type C---Steel cable with dust cover steel plate.

4.2 Nominal size

The nominal size of the cable rollers is 150,.200, 250, 300, 350, 400, 450 and 500.

The nominal size D_n is the smallest dimension of the outer diameter of the roller, in millimeters (mm).

5 size

The specific dimensions and details of the guide roller are shown in Table 1, Table 2, Table 3, Table 4, and Figure 1, Figure 2, Figure 3, Figure 4, Figure 5, Figure 6, Figure 7, and Figure 8.

The unit is mm

a) Type A

Figure 1 Assembly diagram of cable guide rollers with nominal dimensions of 150,.200, 250 (Type A and Type B)

The unit is mm

b) Type B

Description.

1---roller;

2---roller shaft;

3--- bushing;

4---The dust cover is only suitable for type B;

5---N-M6 bolts.

a Flow hole.

Figure 1 (continued)

The unit is mm

a) Type A

Figure 2 Assembly diagram of cable guides with nominal dimensions of 300 and above (Type A and Type B)

The unit is mm

b) Type B

Description.

1---roller;

2---roller shaft;

3--- bushing;

4---The dust cover is only suitable for type B;

5---N-M6 bolts.

a Flow hole.

Figure 2 (continued)

The unit is mm

Description.

1---roller;

2---The dust cover is only suitable for type B.

Figure 3 Detail of the nominal 150, 200, 250 roller (type A and type B)

The unit is mm

Description.

1---roller;

2---The dust cover is only suitable for type B.

Figure 4 Detail of the roller with a nominal size of 300 and above (Type A and Type B)

Table 1 Dimensions and safe working load units of Type A and Type B cable guides are in millimeters

Nominal size

Dn

D1 D2 D3 D4 D5 R1 R2 R3 R4 H H1 H2 H3 H4 e

150 150 230 216 110 90 30 52 15 11 137 25 84 44.7 43.38 37.7

200.200 300 280 145 115 40 66 20 13 157 30 99 59.2 35.46 46.3

250 250 370 340 165 135 50 80 25 15 177 32 105 73.5 28.33 55.0

300 300 430 400 190 150

350 350 490 460 210 167

400 400 560 520 225 177

450 450 620 590 245 190

500 500 680 660 260 205

125 82.6 32.62 60.8