

# Amendments of Rules/Guidance for the Classification of Steel Barges

(for External Opinion Inquiry)

2022. 08.



Machinery Rule Development Team

## - Main Amendments -

(1) Effective date : 01 July 2023

(based on contract date for construction or dates of which application for survey)

© Amendment of Ch.20 Sec.4

- Clarify acceptable cases for arrangements of portable bilge pump instead of fixed bilge system
- In Guidance, updating provisions to align with the Korean edition

Present	Amendment	Reason
<p style="text-align: center;"><b>Rules for the Classification of Steel Barges</b></p> <p style="text-align: center;">CHAPTER 20 MACHINERY</p> <p style="text-align: center;">Section 4 Auxiliaries and Piping Arrangement</p> <p><b>407. Bilge systems</b></p> <p>1. An efficient bilge pumping system is to be provided in all barges capable of pumping from and draining each watertight compartment when the barge is on an even keel and either upright or listed 5 deg. The portable bilge pumps may be considered <u>for barges</u> that are engaged in under coastal service (excluding international voyage) if approved by the Society.</p> <p><i>(Omitted)</i></p> <p>13. For unmanned barges, <u>in general, portable pumps or other suitable drainage means are to be provided.</u></p>	<p style="text-align: center;"><b>Rules for the Classification of Steel Barges</b></p> <p style="text-align: center;">CHAPTER 20 MACHINERY</p> <p style="text-align: center;">Section 4 Auxiliaries and Piping Arrangement</p> <p><b>407. Bilge systems</b></p> <p>1. An efficient bilge pumping system is to be provided in all barges capable of pumping from and draining each watertight compartment when the barge is on an even keel and either upright or listed 5 deg. The <u>power operated portable</u> bilge pumps may be considered <u>for particular compartment(s) of barges</u> that are engaged in under coastal service (excluding international voyage) if approved by the Society.</p> <p><i>(Omitted)</i></p> <p>13. For unmanned barges, <del>in general, portable pumps or other suitable drainage means are to be provided. it may not be provided a permanently installed bilge system, however, portable bilge pumping equipment including hand pumps or acceptable measure(s) for drainage shall be arranged for each compartment(s). The pump(s) or measure(s) can be operated on board the barge or on board the tug.</del></p>	<p>- Clarifying the text</p> <p>- Updating the text to align with the Korean edition</p>

Present	Amendment	Reason
<p style="text-align: center;"><b>Guidance for the Classification of Steel Barges</b></p> <p style="text-align: center;"><b>CHAPTER 20 MACHINERY</b></p> <p style="text-align: center;"><b>Section 4 Auxiliaries and Piping Arrangement</b></p> <p><b>407. Bilge systems</b></p> <p>1. The "approved by the Society" referred to in <b>407. 1</b> of the rules is as follows:</p> <p>(1) <u>volume for "particular compartment" referred to in 406. 2 of the Guidance is not more than 0.5% of L×B×D, or</u></p> <p>(2) <u>stability condition is to be satisfied under full loading and highest center of gravity includes such "particular compartments" referred to in 406. 2 of the Guidance filled with seawater and maximum free surface effect. When two or more compartments are considered, the stability is to be separately examined for each compartment.</u></p> <p><i>(Omitted)</i></p> <p>3. The diameter of the bucket cylinder of the manual bilge pump is not to be less than <math>d'</math> obtained from the following formula.</p> $d' = \frac{LBD}{142} + 100 \text{ (mm)}$ <p><math>d'</math> : The diameter of the bucket cylinder (mm)</p> <p><math>l</math> : Length of the compartment to be drained by the manual pump (m)</p> <p>4. <u>The compartment referred to in the above 1 may be considered as being provided with suitable drainage means specified in <b>407. 13</b> of the rules.</u></p>	<p style="text-align: center;"><b>Guidance for the Classification of Steel Barges</b></p> <p style="text-align: center;"><b>CHAPTER 20 MACHINERY</b></p> <p style="text-align: center;"><b>Section 4 Auxiliaries and Piping Arrangement</b></p> <p><b>407. Bilge systems</b></p> <p>1. The "approved by the Society" referred to in <b>407. 1</b> of the rules is as follows: <u>means that</u></p> <p>(1) <del>volume for "particular compartment" referred to in 406. 2 of the Guidance is not more than 0.5% of L×B×D, or</del></p> <p>(2) <del>stability condition is to be satisfied under full loading and highest center of gravity includes such "particular compartments" referred to in 406. 2 of the Guidance filled with seawater and maximum free surface effect. When two or more compartments are considered, the stability is to be separately examined for each compartment.</del></p> <p><i>(Omitted)</i></p> <p>3. The <u>capacity of manual bilge pump in <b>407. 4</b> of the rules is not to be less than <math>Q</math> from <b>407. 2</b> replacement <math>d</math> with a diameter of the bucket cylinder of the manual bilge pump which is not to be less than <math>d'</math> obtained from the following formula.</u></p> $d' = \frac{LBD}{142} + 100 \text{ (mm)}$ <p><math>d'</math> : The diameter of the bucket cylinder (mm)</p> <p><math>l</math> : Length of the compartment to be drained by the manual pump (m)</p> <p>4. <del>The compartment referred to in the above 1 may be considered as being provided with suitable drainage means specified in <b>407. 13</b> of the rules.</del></p>	<p>- Deleting the requirements (1) due to lack of specific background.</p> <p>- Clarify the applied requirements of 407. 3.</p> <p>- Deleting the requirements 4 by publishing Circular providing detail compartment in 407. 1.</p>