

Amendments of the Rules for Classification of Steel Ships

High Speed and Light Crafts

(For External inquiry)



2025. 9.

Machinery Rule Development Team

- Main Amendments -

- (1) Effective date : 1 July 2026 (based on the contract date)
 - ENP4500-124-2025 : Clarification on the application

Amendment	Note
<p style="text-align: center;">CHAPTER 5 MACHINERY INSTALLATIONS</p> <p style="text-align: center;">Section 1 General</p> <p>101. General</p> <p>1. Application</p> <p>(1) In case of high speed craft engaged on international voyages, the HSC Code is to be applied. <u>For high speed craft not engaged on international voyages, requirements deemed appropriate by the Flag Administration are to be applied.</u></p> <p>(2) Other requirements for machinery installations not specified in this chapter are, in principle, to be in accordance with relevant requirements in Rules for the Classification of Steel Ships, other equivalent rules, or standards deemed appropriate by this Society. [See Guidance]</p> <p>2. Equivalency</p> <p>In case of machinery installations that are not appropriate to the requirements of this part, they may be accepted, if the Society considers them appropriate.</p> <p><Omitted></p>	<p><1 July 2026, Based on the contract date></p> <p>* ENP4500-124-2025</p> <p>- Modified draft made as per internal discussion</p>

Amendments of the Guidances for Classification of Steel Ships

High Speed and Light Crafts

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- Main Amendments -

(1) Effective date : 1 July 2026 (based on the contract date)

● ENP4500-125-2025 : Clarification on the requirement of the submersible pump

● MAM4300-348-2025 : Clarification on the requirement of the shaft calculation

CHAPTER 5 MACHINERY INSTALLATIONS

Section 2 Auxiliaries and Piping Arrangement

202. Bilge pumping system

1. Bilge pumps

- (1) In application to **202. 4.** (1) of the Rules, a ship registered with service restriction notations of equipment ("C" or "S") shall be applied to **Table 5.2.1.** (2020)
- (2) In application to **202. 4.** (3) of the Rules, where main bilge pipe is not provided in the bilge pumping system, with the exception of the space in front of the public space and crew space, at least one fixed submersible pump shall be fitted for each space. In addition for bilge pumping of each space at least one portable pump shall be provided, supplied from emergency supply if electric for use. The capacity Q_n of each submersible pump is to be not less than required by the following formula or 8.0 m³/h whichever is the more. **However, for light craft not engaged on international voyages and operating coasts area only, Pt 5, Ch 6, Section 4, 404. 1 and 405. 2 of Rules for the Classification of Steel Ships may be applied.**

$$Q_n = Q / (N - 1) \text{ tonne/h}$$

where,

N = number of submersible pumps

Q = total capacity as defined **202. 4.** (3) of the Rules

Table 5.2.1 Number of Bilge Pumps

Length of ship(L)	Power bilge pump		Manual pump	Remarks
	Main engine driven pump	Independent power pump		
$L < 25 \text{ m}$	1 set	—	1 set	The main engine driven pump may be omitted according to the discretion of the Society. In case ships less than 10 m, a bucket may be provided instead of a pump.(※)
$25 \text{ m} \leq L < 30 \text{ m}$	1 set	1 set	—	2 sets of manual pumps may be provided instead of the main engine driven pump. Where ships is difficult to be provided with the independent power pump, the independent power pump may be omitted by considering piping system and capacity of other pumps.(※)
$30 \text{ m} \leq L < 50 \text{ m}$	1 set	1 set	—	2 sets of manual pumps may be provided instead of the main engine driven pump.

(Note)

- The requirement with mark (※) is to be applied to ships other than passenger ship.
- In this Table, power pump may be provided instead of manual pump, and independent power pump may be provided instead of main engine driven pump.
- In ships having length 25 m or over, but less than 30 m, the requirement for omission of independent power pump is to be applied to ships difficult to be provided with the independent power pump, provided with main engine driven pump having capacity more than suction capacity required by independent power pump, and arranged bilge piping in all compartment required bilge discharge. Where the hand pump is substituted for main engine driven pump, the independent power pump may be omitted.
- In ships having coastal service area, the bilge pump for oil filtering equipment may be recognized as a manual bilge pump.
- All power pumps and manual pumps are to discharge bilge from cargo hold, engine room and shaft tunnel.
- For ships of less than 25 m in length other than passenger ship, one of the two bilge pumps may be installed manually, even if the capacity of pump is above 1.5 m³/hr.
- For catamaran passenger ships, one bilge pump may be provided for each hull.

<1 July 2026, Based on the contract date>
* ENP4500-125-2025

– Clarification on the requirement of submersible bilge pump

CHAPTER 5 MACHINERY INSTALLATIONS

Section 3 Prime Movers, Power Transmission Systems and Lift Devices, ETC.

301. General

1. Application

<Omitted>

Table 5.3.1 Factor K_5 Concerning Material of Shaft

Shaft material		Specified minimum yield strength (N/mm ²)	Specified minimum tensile strength (N/mm ²)	K_5		
Material	Chemical composition (%)			Application 1 ⁽¹⁾	Application 2 ⁽¹⁾⁽²⁾	Stern tube shaft
Carbon steels or Carbon Manganese steels	According to Pt 2, Ch 1.	200	400	126	114	114
Authentic-stainless steels (KS STS 316 series)		175	470	91	81	81
Martensitic-stainless steels (KS STS 431 series)	C : 0.20 max Si : 0.80 Mn : 1.0 Ni : 2.0-3.0 Cr : 15.0-18.0	675	850	88	80	80
Duplex stainless steels	(3)	470	660	63	57	57
Manganese bronze copper	Cu : 52-62 Pb : 0.5 max Mn : 2.0 max Fe : 1.20 max Zn : remains	245	510	92	84	84
Nikel - Aluminum bronze copper	Ni : 4.0-6.0 Al : 7.0-11.0 Fe : 2.0-6.0 Nn : 2.0 max Cu : remains	390	740	85	77	77
Nikel-copper alloy	Ni : 63-68 Fe : 3.0 max Mn : 2.0 max C : 0.30 max Cu : remains	350	550	85	77	77
Nikel-copper alloy	Ni : 63-70 Al : 2.0-4.0 Fe : 2.0 max Mn : 1.5 max C : 0.25 max Cu : remains	690	960	71	64	64

(NOTES)

- (1) For application 1 and 2, it is to be referred to the requirement of **Table 5.3.1** of the Guidance.
- (2) For stern tube sealing devices at the forward side, from the forward end to intermediate shaft coupling it may be reduced to the required diameter of the intermediate shaft.
- (3) For the composition and characteristics, it is to be complied with the requirement recognized by the Society.
- (4) For precipitation hardening stainless steels(KS STS630 series), the most severe condition among the factor applicable to stainless steels specified in **Table 5.3.1** of the Guidance is to be applied.

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* MAM4
300-
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2025

- Clarification on the STS 630