

**RULES  
FOR THE CLASSIFICATION OF  
SHIPS**

*Part 8 – PIPING  
January 2021*

*Amendments No. 4  
July 2023*

**CROATIAN REGISTER OF SHIPPING**

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By the decision of the General Committee of Croatian Register of Shipping,

Amendments No. 4 to the  
**RULES FOR THE CLASSIFICATION OF SHIPS**  
Part 8 – PIPING

have been adopted on 26th June 2023 and shall enter into force on 1st July 2023

## GENERAL TERMS AND CONDITIONS

(March 2022)

### Article 1 GENERAL

**1.1** CROATIAN REGISTER OF SHIPPING (hereinafter: the *Register*) shall at all times remain an independent contractor and neither the *Register* nor any of its officers, surveyors, auditors, inspectors, agents, appointers, officers or managers shall act as an employee, servant or agent of any other party in the performance of the Services rendered by the *Register*.

**1.2** The *Register* acts as a service provider. The Services provided by the *Register* cannot be construed as a commitment by the *Register* to achieve any result or as a warranty.

**1.3** The provision of Services is subject to these General Terms and Conditions. No other terms and conditions shall apply, either expressly or by implication, unless expressly agreed in writing between the Parties.

**1.4** These General Terms and Conditions shall be incorporated into, or referred to in any Contract and shall prevail over and exclude any other terms and conditions that the Client may wish to impose.

Any amendments to and/or deviations from these General Terms and Conditions, as well as any additional terms and conditions of the Client, shall be binding or valid only if set forth in writing and duly signed by the authorised representatives of both Parties.

**1.5** The invalidity of one or more provisions of these General Terms and Conditions shall not affect the remaining provisions.

**1.6** The Client acknowledges that the latest version of these General terms and Conditions and the latest version of applicable Rules apply to the Services provided by the *Register*.

**1.7** Definitions in these General Terms and Conditions take precedence over other definitions that may appear in other documents issued by the *Register*.

**1.8** The Client should at all times be aware of the provisions of these General Terms and Conditions, as they may be further amended, with their latest up to date version available on the web site of the *Register*.

### Article 2 DEFINITIONS

**2.1** **Certificate** means either a class certificate or statutory certificate, statement, attestation, statement of compliance, and a report following the Services provided by the *Register*.

**2.2** **Certification** means the activity of certification in application of international and national standards and international industry practice provided by the *Register*.

Certification is an appraisal given by the *Register* to the Client and cannot be construed as an implied or express warranty of safety, fitness for purpose, seaworthiness of the vessel or its value for sale, insurance or chartering.

The purpose of Certification is to provide classification and statutory services and assistance to the maritime industry, Flag State Administrations, and regulatory authorities relating to maritime safety and pollution prevention.

**2.3** **Classification** includes all activities and Services provided by the *Register* in accordance with the Rules. Classification may or may not be accompanied by the issuance of a Certificate of class with reference to the Rules.

Certificate of class is valid only if issued by the *Register*.

However, Certificate of class should not be construed as a guarantee of the safety, fitness for purpose or seaworthiness of the vessel. It is merely an attestation that the vessel complies with the Rules developed and published by the *Register*.

In addition, the *Register* is not a guarantee of the safety of life or property at sea or the seaworthiness of a vessel because, although the classification of a vessel is based on the assumption that the vessel will be properly loaded, operated, and maintained by competent and qualified personnel, the *Register* has no control over how a vessel is operated and maintained between the periodic surveys it conducts.

**2.4** **Statutory certification** means certification made by the *Register* on behalf of the Flag State Administrations when and to the extent that the *Register* has been authorised to do so by the respective Flag State.

Statutory certification and services include the assessment of vessels registered by the Flag State and/or ship management companies to determine whether such ships/companies comply with the applicable requirements of international conventions, codes and national legislation, and the issuance of, or assistance in the issuance of, the appropriate certificates and documents.

Statutory certification includes, but is not limited to, certification, survey, and issuance of statutory certificates on behalf of the Flag State.

In cases where the *Register* acts on behalf of Flag State Administrations, the *Register* shall follow guidance issued by IMO (Resolutions, Circulars, etc.) or by IACS through Unified Interpretations (UI), unless otherwise directed by the Flag State.

**2.5** **Client** means the shipowner, company, shipyard and/or party requesting Services or taking ownership of a classed vessel. In cases where shipowners have authorized another party to operate the vessel on their behalf, that party shall be considered as the company.

In addition to the above the Client means the person and/or entity that has requested Services from the *Register* and that has entered into a Contract or an agreement for Services with the *Register*.

**2.6** **Parties** means the *Register* and Client together.

**2.7** **Party** means the *Register* or the Client.

**2.8** **Contract** means the contract in the form of a written agreement between the Client and the *Register* requesting Services, including these General Terms and Conditions and the Rules.

The provisions related to the Contract in these General Terms and Conditions shall apply even if there is no written agreement between the Client and the *Register*.

The Client may request the *Register* in writing to make a change to the contracted Services. However, the *Register* shall not be obligated to accept or execute any such change until a written agreement has been signed with the Client regarding the compensation and the possible impact of the change on the schedule as an addendum to the originally contracted Services.

**2.9** **Services** shall mean the services specified in 2.2, 2.3 and 2.4, but also other services related to certification, classification and statutory certification, such as, but not limited to: ISM Code certification, ISPS Code, MLC 2006 certification, fuel oil consumption reporting, IHM certification, approval of manufacturers and service providers, certification of materials and products, training activities, conformity assessment, and any other relevant activities such as third party inspections, testing, shore and shipboard trials.

The Services provided by the *Register* are performed on a random basis and in no case include a full inspection of all items.

The *Register* shall provide the Services in accordance with related Contract(s), the provisions of these General Terms and Conditions, Rules, the international and national standards, the international conventions, the EU Regulations, the Flag State requirements and the industry practices applicable to the particular Service and always assuming that the Client is aware of these standards and the industry practices.

When providing Services, the *Register* does not guarantee the accuracy of the information or advice provided.

In providing Services, the *Register* does not assess compliance with standards other than the Rules, international and national standards, international conventions, EU regulations, Flag State requirements and industry practice, to the extent agreed in writing or specified in the Contract.

**2.10** The *Register* means the Croatian Register of Shipping, an entity organized and existing under Croatian law, which, according to the Law on the Croatian Register of Shipping (Official Gazette No. 1996/81, 2013/76 and 2020/62) and the Charter of the *Register*, is an independent, not-for-profit, but public welfare oriented, public foundation that performs tasks:

- classification of sea-going ships,
- statutory certification of sea-going ships on behalf of the Flag State Administrations,
- classification of inland navigation vessels,
- statutory certification of inland navigation vessels,
- statutory certification of recreational crafts,
- certification of materials and products,
- conformity assessment of recreational crafts,
- conformity assessment of marine equipment,
- conformity assessment of pressure vessels,
- certification/registration of quality management systems.

**2.11** **Vessel** means a ship, vessel, unit or offshore structure of any kind, whether or not connected to the shore or sea/river bed, located at sea or in inland waters and intended for transportation or special operations on the water, as decided by the *Register*.

**2.12** **Rules** means the Rules for the classification, guidelines, instructions, or other documented evidence of the *Register* related to the Services provided.

The competent interpretation of the requirements specified in the Rules or other regulations published by the *Register* shall be the exclusive responsibility of the *Register's* Head Office, notwithstanding any possible different interpretations by other parties.

In cases where the Rules do not contain detailed requirements, the specific approval by the *Register* shall be based on the principles of the Rules and shall ensure a safety standard equivalent to that of the Rules.

### Article 3 RESPONSIBILITIES

**3.1** It is the Client's responsibility to ensure that all surveys required for vessel's class maintenance are conducted in a timely manner and in accordance with the Rules.

**3.2** The *Register* may suspend or withdraw the vessel's existing Certificate of class in the event of serious deficiencies and replace it with a new Certificate of class with a shortened period of validity during which the deficiencies are to be rectified.

In addition, the *Register* shall suspend or withdraw a vessel's Certificate of class if the deficiencies are of such a magnitude as to endanger the class of the vessel, its safety and integrity, the safety of the crew, passengers, or the marine environment, and shall require that the vessel is to be inspected at the first port of call where the necessary repairs are to be carried out.

**3.3** The Client should inform the *Register*:

- (i) in the event of a change in the intended use of a vessel, a conversion and alteration of the hull, machinery installations and other equipment affecting the Class of the vessel assigned by the *Register*. Conversions and alterations must be made under the supervision of the *Register* and must comply with the requirements of the Rules and/or additional requirements of the *Register*,
- (ii) in cases where the vessel has been damaged to such an extent that the Class of the vessel is likely to be affected and the safety and integrity of the vessel is likely to be compromised. In such cases, the vessel must be surveyed at the first port of call or as further directed by the *Register*. The survey shall be to the extent deemed necessary by the *Register*, by taking into account the extent of the damage.
- (iii) in cases where class-related deficiencies and/or defects are found as a result of a Flag State inspection or Port State Control. Should the Client fail to notify the *Register* of the detention of the vessel by Port State Authorities due to class related deficiencies, the *Register* reserves the right to suspend or withdraw the Certificate of class.

**3.4** The *Register* shall have full control over Certificates issued and may suspend or withdraw a Certificate at any time in its sole discretion if the Client fails to comply with the following requirements set forth in the *Rules for the Classification of Ships, Part 1 - General Requirements, Chapter 1 - General Information*, as applicable:

- (i) para. 5.3 - *Maintenance of the validity of Certificate of Class*,
- (ii) para. 5.4 - *Period of Validity*,
- (iii) para. 5.5 - *Extension of the Period of Validity*,
- (iv) para. 5.6 - *Suspension and Reinstatement of Class in the Case of Overdue Surveys*, and
- (v) para. 5.7 - *Withdrawal of Class*.

**3.5** The *Register* may suspend or withdraw a Certificate at any time in its sole discretion if the Client fails to comply with the following requirements set forth in the *Rules for the Classification of Inland Navigation Vessels, Part 1 - Classification and Surveys, Chapter I - Principles of Classification*, as applicable:

- (i) para. 2.8 - *Maintenance of the Validity of the Certificate of Class*,
  - (ii) para. 2.9 - *Extension of validity of the Certificate of Class*,
- and following requirements set forth in the *Rules for the Classification of Inland Navigation Vessels, Part 1 - Classification and Surveys, Chapter II - Classification*, as applicable:

- (iii) para. 2.1 - *Suspension of Class*,
- (iv) para. 2.2 - *Withdrawal of Class*.

**3.6** In addition to clauses 3.2, 3.4 and 3.5 of this Article, the *Register* reserves the right to terminate the Services and related Contract in the event of a breach of the provisions of these General Terms and Conditions.

**3.7** If the Client fails to provide the *Register* with the required access or information at the agreed times or fails to prepare for the Service in a timely manner, the *Register* may suspend the provision of the Service until it receives the Client's instructions for access and/or the required information.

The *Register* shall not be liable for the consequences of such suspension, and the Client shall be responsible for the *Register's* additional fees and other unnecessary costs and expenses incurred by the *Register*.

**3.8** The Client is obliged to perform timely payments of the invoices for provided Services. However, the *Register* may retain or withhold any Service or Certificate to the Client in the case of outstanding payments, whether mutually related or not, arising out of the entire business relationship with the Client.

#### Article 4 HEALTH, SAFETY AND ENVIRONMENT

**4.1** Both the *Register* and the Client shall apply reasonable standards to promote safety, health, and environmental protection and to provide a safe working environment for their personnel.

**4.2** The Client shall provide the *Register* with all access and information necessary for the safe and efficient performance of the requested Services as required by the Rules.

**4.3** During the survey, personnel of the *Register* should have secure access to all work that directly or indirectly affects the Service.

**4.4** The *Register* has the right to refuse to conduct an activity or visit an area or site if the *Register* in its sole discretion, believes that relevant risks are unacceptable or are not adequately addressed, contained, or otherwise mitigated.

Such a decision shall suspend the obligations of both Parties under the Contract without incurring any liability or penalty until the Parties agree on how to proceed.

#### Article 5 THIRD PARTIES AND SUBCONTRACTORS

**5.1** Each specific Contract, including any Certificates issued, relates specifically to the Client, and no rights, obligations, interests, claims, benefits or Certificates issued shall extend to any third party without the prior written consent of the *Register*.

**5.2** The Client shall not be entitled to grant any right to use the Certificates to any third party without the prior written consent of the *Register*.

**5.3** The Client shall not without *Register's* consent, cede, assign, transfer, subcontract or deal in any manner with all or any of its rights or obligations under any Service and related Contract.

**5.4** With regard to third party rights to access information and Certificates under confidentiality clause reference is to be made to Article 9.

#### Article 6 TAXES

**6.1** Each Party shall be responsible for and shall bear all taxes, duties or similar governmental charges levied or imposed on any activity of that Party.

**6.2** Prices, fees, rates, or remuneration are exclusive of any form of sales tax, value added tax, administrative fees and services tax and/or other similar taxes, including any surcharges. If any such indirect tax is or becomes applicable to the Services provided under the Contract, the Client shall be responsible for the payment of such indirect taxes.

#### Article 7 PAYMENT OF INVOICES

**7.1** The provision of Services by the *Register*, whether complete or not, shall include payment of fees thirty (30) days after issuance of the invoice for the portion of the Services performed.

**7.2** In the event that the Client fails to meet the requirements for payment in accordance with the instalments and terms of payment contained herein, the *Register* reserves the right to charge the Client with the interest rate in accordance with the applicable laws of the Republic of Croatia.

**7.3** If the Client disputes an invoice or part of an invoice, the Client shall notify *Register* thereof in writing without undue delay. If no notification is received by the due date, Client shall be deemed to have accepted the invoice in full. If only part of an invoice is disputed, the undisputed amount must be paid by the due date.

Consequently, no disputes arising between the *Register* and the Client shall interfere with prompt payment of invoices by the Client. Any rights of lien or retention in favour of the Client or otherwise, are hereby excluded.

**7.4** In the event of cancellation of all or part of the Services prior to their final completion, the Client shall pay all costs incurred by the *Register* on pro-rata basis for the portion of the Services provided to date. In such event, the *Register* will not claim the Client for loss of profit or reduced income. All reasonable costs directly attributable to the early termination and all amounts due to the *Register* at that time shall become immediately due and payable.

**7.5** In the event of termination of the Service and related Contract, the *Register* shall be entitled to retain any payments, deposits or prepayments of fees made by the Client prior to the date of termination up to the amount to which the *Register* is entitled.

#### Article 8 TERMINATION

**8.1** The Parties shall have the right to terminate the Services and the related Contract(s) by written notice to the other Party, and without prejudice to Article 7, in the following cases:

- (i) if the other Party commits a material breach of these General Terms and Conditions and/or the Contract and fails to rectify such breach in accordance with clause 8.4 of this Article,
- (ii) if the other Party becomes insolvent, is unable to pay its debts as they become due, or becomes subject to bankruptcy proceedings, administration, receivership, dissolution, liquidation, winding up or otherwise ceases to carry on its business; or
- (iii) for convenience, after giving the other Party thirty (30) days' prior written notice of termination.

**8.2** The Classification issued for the relevant vessel and the Certificates previously issued shall remain valid until the effective date of termination or, in the event of such termination, immediately, subject to compliance with Article 3 and Article 7.

**8.3** If, in the reasonable opinion of the *Register*, the Client breaches or is suspected of breaching Article 14 or Article 15, the *Register* shall have the right to terminate the Service and related Contract with immediate effect.

**8.4** Notwithstanding the provisions of clause 8.1 of this Article, the Party intending to terminate Services for non-compliance or breach of the provisions of these General Terms and Conditions shall notify the other Party of the non-compliance or violation of the provisions of these General Terms and Conditions and set a reasonable deadline of 15 (fifteen) days for the other Party to remedy the breaches of the provisions of these General Terms and Conditions.

If the Party fails to remedy the breaches of the provisions of these General Terms and Conditions within the aforementioned period, the other Party shall have the right to terminate Services without further notice.

**8.5** Termination of the Service and related Contract pursuant to the provisions of these General Terms and Conditions shall not give either Party the right to claim any additional compensation, indemnity or reimbursement from the other Party as a result of such termination, but such termination shall not affect any rights or remedies available to a Party at the time the termination becomes effective or any obligations or liabilities incurred by a Party.

#### Article 9 CONFIDENTIALITY

**9.1** The Parties agree to keep confidential all facts, data, information, etc. related to the other Party's business that they have learned in the course of providing Services. Such information and data shall not be disclosed by the Parties to any third party and shall not be used or misused to the detriment of the other Party.

**9.2** The *Register* will keep confidential any data, plans or other technical information received from the Client and will not disclose it to any third party outside the *Register*, unless authorised by the Client. This obligation shall continue to apply after termination of the Services. This obligation shall not apply to any data, plans or other technical information that was in the possession of the *Register* prior to being disclosed to the *Register* by or on behalf of the Client, or that becomes publicly available through no fault of the *Register*, or is otherwise provided to the *Register* by an independent source that is under no obligation of confidentiality to the *Register*.

**9.3** Certificates issued by the *Register* to the Client as a result of the Services provided shall not be covered by the confidentiality Article.

Notwithstanding the foregoing, the Client shall be entitled to disclose any data to its affiliates involved in the transactions related to the Services or the Client's core activities.

**9.4** Notwithstanding clause 9.1 and clause 9.2 of this Article, the *Register* shall have the right to disclose the Confidential Information to the following parties if required by regulations of:

- (i) authorised representatives of the Flag State Administration,
- (ii) authorised audit teams (i.e., accreditation body or EC auditors),
- (iii) the International Association of Classification Societies (IACS),
- (iv) a court of competent jurisdiction, government agency, or other relevant public authority, in accordance with applicable law, court order, or other public regulation.

**9.5** The Client acknowledges that the *Register* is required to provide access to information to the EU Commission or any person acting on its behalf in accordance with applicable EU requirements and that the Client shall give the EU Commission with unrestricted access to the vessels for the purpose of inspection.

**9.6** The obligations in this Article shall survive the conclusion of the Service or the termination of related Contract and shall continue for as long as the relevant information remains confidential.

#### Article 10 INTELLECTUAL PROPERTY

**10.1** Each Party shall be the sole owner of all rights to its Intellectual Property created before or after the effective date of these General Terms and Conditions, whether or not associated with any Contract between the Parties.

**10.2** The Intellectual Property developed by the *Register* for the provision of the Services, including but not limited to drawings, calculations and reports, shall remain the exclusive property of the *Register*.

#### Article 11 PROFESSIONAL ETHICS

**11.1** Each of the Parties warrants that, with respect to the matters contemplated herein, neither it nor its affiliates has made or will make, directly or indirectly, any offer, payment, gift or authorization of money to any government official or employee, political party, public official or candidate for the benefit or advantage thereof.

**11.2** In providing the Services, the *Register* shall strictly adhere to the requirements of its Code of Ethics relating to business activities.

#### Article 12 FORCE MAJEURE

**12.1** For the purposes of these General Terms and Conditions, the term "Force Majeure" includes any event that directly or indirectly prevents the Parties from fulfilling their obligations due to events beyond their control, such as: strikes, wars, riots, piracy, civil commotion, malicious damage, pandemic, compliance with laws or government orders, rules, regulations or directives, sanctions and embargoes, accidents, defects of plants or machinery, seizures, fires, floods, storms and the like.

**12.2** If either Party is prevented or delayed from performing its obligations by Force Majeure, such Party shall promptly notify the other Party in writing of the circumstances of the Force Majeure and its influence and, after such notification, shall not be liable for performance of any obligations prevented by the influence of the Force Majeure during its duration. Upon termination of the influence of the Force Majeure, the same Party should proceed with the planned activities in order to fulfil its obligations.

**12.3** If one of the Parties is prevented by Force Majeure in its activities and fulfilment of its obligations and this event lasts continuously for three (3) months, the other Party shall be entitled to terminate the Service and related Contract without liability.

**12.4** Neither of the Parties shall be liable for non-compliance with these General Terms and Conditions due to Force Majeure. If one of the Parties is prevented from fulfilling its obligations under these General Terms and Conditions due to Force Majeure, it shall immediately notify the other Party in writing within a reasonable period of time, stating the reasons for the Force Majeure and providing relevant evidence, if any.

#### Article 13 INDEMNIFICATIONS

**13.1** Each Party shall indemnify the other Party against all claims arising out of the performance of the Services in respect of bodily injury, illness or death of any of its employees or other representatives and in respect of loss of or damage to the Party's property.

This provision shall apply whether or not the damage is caused or contributed to by the negligence of the other Party. Both Parties are obliged to take out separate insurances for these liabilities.

**13.2** The Client shall indemnify the *Register* from and against all claims arising from the Client's violation of the provisions of these General Terms and Conditions and from the misuse of the Certificates issued by the *Register*.

**13.3** The Client shall indemnify the *Register* against any financial responsibility or amounts arising from non-payment, late payment or payment of withholding taxes to the non-relevant tax authority or any other relevant governmental body.

**13.4** Each Party shall notify the other Party without undue delay as soon as it becomes aware of any incident that could give rise to a claim against the other Party in respect of the Service provided and related Contract.

#### Article 14 ANTI-CORRUPTION

**14.1** Each Party agrees that in performing its obligations under any Service, it will ensure that its affiliates, employees and/or agents, subsidiaries, subcontractors, consultants, and any other persons providing Services will:

- (i) comply with all applicable anti-bribery and anti-corruption laws (collectively, Anti-Bribery Laws) and, in particular, do not, directly or indirectly, offer, promise, grant, authorise the payment of, or confer any financial or other benefit on any public or government official:
  - to a public or governmental official to obtain or retain business with the intent to influence such official in his or her capacity as an official, if such official is not permitted or required by written law to be influenced by the offer, promise or gift; or
  - to another person with the intent to induce or reward the improper performance of a function or activity or for any other illegal purpose,
- (ii) maintain adequate systems and procedures designed to prevent activities, practises, or conduct in connection with services that would constitute an offence under an anticorruption law; and
- (iii) take reasonable steps to prevent similar acts by customers, contractors, subcontractors, agents and other third parties, persons under its control or influence.

**14.2** Any failure by a Party to comply with or ensure compliance with its obligations under this Article shall, notwithstanding anything to the contrary in these General Terms and Conditions, be deemed a breach of these General Terms and Conditions which shall entitle the other Party to suspend and/or terminate the Services by notice in writing with immediate effect without further liability to the other Party except for any liability which may have arisen prior to the date of termination or suspension (as the case may be).

**14.3** If a Party elects to suspend the provision of Services under these General Terms and Conditions pursuant to this Article, it shall have the sole and absolute discretion to determine:

- (i) when it will resume performance (if at all); and
- (ii) extend the period for performance of its obligations under the Services in its sole discretion.

#### Article 15 SANCTIONS

**15.1** Each Party shall conduct all activities in compliance with all laws, statutes, rules, economic and trade sanctions (including, but not limited to, U.S. sanctions and EU sanctions) and regulations applicable to such Party, including, but not limited to: child labour, forced labour, collective bargaining, discrimination, abuse, working hours and minimum wages, anti-bribery, anti-corruption, copyright and trademark protection, personal data protection.

**15.2** Each Party hereby represents and warrants that it is not or will not be subject to any economic or trade sanctions ("Sanctions") imposed by the United States of America, the European Union, the United Kingdom, any EU Member State, or the United Nations with respect to any country and/or by any sanction giver with respect to any company/individual.

**15.3** Each Party represents and warrants that it will strictly comply with all Sanctions.

**15.4** Nothing in these General Terms and Conditions shall be construed as causing or obligating either Party to act or refrain from acting in a manner inconsistent with, punishable by, or prohibited by any Sanctions.

**15.5** Neither Party shall be obligated to perform any obligation arising under these Terms and Conditions (including, without limitation, the obligation to):

- (i) perform, deliver, accept, sell, purchase, pay or receive any funds to, from or through any person or entity; or
- (ii) engage in any other action whatsoever,  
if doing so violates or is inconsistent with sanctions and/or recommendations of international (intergovernmental) organisations to combat the financing of terrorism and other criminal activities and/or money laundering or exposes such Party to investigation or penalties.

**15.6** In the event that a Party breaches any Sanctions or the Party's Business and/or Transactions arising out of or in connection with these General Terms and Conditions breach any Sanctions or otherwise violate the recommendations of one or more international (intergovernmental) organisations for combating the financing of terrorism and other criminal activities and/or money laundering, the other Party shall be entitled to terminate these General Terms and Conditions by written notice with immediate effect without incurring any liability to the other Party, except for liabilities (if any) incurred prior to the date of termination.

#### Article 16 LIABILITY

**16.1** The *Register* is not, and cannot be considered as, an underwriter, consulting engineer, naval architect, shipbuilder, shipowner, or ship management company, nor can it assume the obligations and responsibilities associated with such functions, although the *Register's* experience may enable it to respond to inquiries about matters not covered by its Rules, policies, instructions, or other documented evidence.

**16.2** The practices and procedures of the *Register* shall be selected by the *Register* in its sole and absolute discretion based on its experience and knowledge and in accordance with generally accepted professional standards in the relevant field of classification societies.

**16.3** Nothing herein contained shall release any designer, naval architect or engineer, shipbuilder or manufacturer, shipyard, vendor, supplier, contractor or subcontractor, repairer or owner, from any information, report, certificate or similar document issued in connection with the provision of Services by the *Register*, operator, manager or other person or entity from any express or implied warranty or other contractual obligation or responsibility, or from any negligent act, error or omission of any kind whatsoever, nor shall they create any right, claim or benefit for any third party.

**16.4** The *Register* shall exercise due care in the selection or appointment of its surveyors and all other employees whose presence and work is necessary for the provision of the Services.

**16.5** If any person or entity using the Services of the *Register* suffers any loss, damage or expense that is or is shown to have been caused by a negligent act, omission or error of the *Register's* officers, surveyors, auditors, inspectors, agents, appointers, officers or managers, or those purporting to act in the name of and on behalf of the *Register*, or a negligent inaccuracy, advice, report or evidence given by or in the name of or/and on behalf of the *Register*, then the liability of the *Register* is limited in respect of any direct or indirect claim shall be limited to an amount not exceeding five times the fee charged or to be charged by the *Register* for the relevant Service.

**16.6** Any liability for consequential damages is expressly excluded.

For purposes of this clause, consequential damages include, without limitation:

- (i) indirect or consequential damages,

- (ii) loss and/or delay of production, loss of products, loss of use, loss of bargain, loss of revenue, loss of profit or anticipated profit, loss of business and business interruption, in each case directly or indirectly.

**16.7** The Parties are not entitled to assign the performance of obligations under these General Terms and Conditions or parts thereof to third parties without the prior written consent of the other Party.

**16.8** If during the term of the Contract, there is a transfer of function due to change of status (merger, acquisition, division, etc.), all obligations and rights under these General Terms and Conditions and associated Contract will be transferred to the legal successor of the Party concerned.

#### Article 17 GOVERNING LAW AND RESOLVING OF DISPUTES

**17.1** These General Terms and Conditions and any dispute or claim between the Parties arising from or in connection with it, or the Services provided hereunder, will be governed and interpreted in accordance with the English law.

**17.2** The Parties shall use their reasonable efforts to resolve any claim or dispute arising in relation to rendered Service by negotiations within a reasonable time.

**17.3** Should the Parties fail to resolve any claim or dispute by negotiations, the dispute shall be exclusively subject to the jurisdiction of the Permanent Arbitration Court with the Croatian Chamber of Economy in Zagreb, Republic of Croatia.

**17.4** The Parties agree to keep the any arbitration proceedings confidential.

**17.5** Notwithstanding the above, any claim not presented within three (3) months of the completion of the particular Services, or within three (3) months of from the date when the events which are relied on were first discovered by the Client, shall be deemed waived and absolutely time barred.

**17.6** Any objections against the line adopted by any of the *Register's* servants in fulfilling their duties or against the conclusions reached are to be raised to the *Register* by the Party as soon as possible.

If the Party is not satisfied with the final conclusions and interpretations by the *Register* the arbitration lays upon the Commission for appeal for Classification and Statutory certification of ships, which is to be formed according to the Regulation 39 of the Charter of the *Register*.

## INTRODUCTORY NOTES

These amendments shall be read together with the requirements in the Rules for the Classification of Ships, Part 8 – Piping, edition January 2021, as amended by Amendments No. 3, edition January 2023.

Table 1 contains review of amendments, where items changed or added in relating to previous edition are given, with short description of each modification or addition. All major changes throughout the text are shaded.

**TABLE 1 – REVIEW OF AMENDMENTS**

This review comprises amendments in relation to the Rules for the Classification of Ships, Part 8 – Piping, edition January 2021, as amended by Amendments No. 4, edition July 2023.

<i>ITEM</i>	<i>DESCRIPTION OF THE AMENDMENTS</i>
<b>SECTION 1 – GENERAL</b>	
Head 1.7	Items 1.7.1, 1.7.2 and sub-items 1.7.4.1, 1.7.6.10 have been amended in order to align with IACS UR P4, Rev.7.



This Part of the Rules includes the requirements of the following international Organisations:

**International Maritime Organization (IMO)**

**Conventions:** International Convention for the Safety of Life at Sea, 1974 (SOLAS 74) and all subsequent and applicable amendments adopted up to MSC 106  
 Protocol of 1988 relating to the International Convention for the Safety of Life at Sea, 1974, as amended (SOLAS PROT 1988)  
 International Convention for the Prevention of Pollution from Ships 1973, as modified by the Protocol of 1978 relating thereto (MARPOL 73/78) and all subsequent and applicable amendments adopted up to MEPC 79

**International Association of Classification Societies (IACS)**

**Unified Requirements (UR):** E8 (1996), F2 (1999), F8 (1989), F15 (rev. 6, Corr.1 Feb 2021), F16 (2000), F21 (1974), F22 (1974), F24 (1998), F26 (2000), F33 (1981), F35 (2005), F39 (1999), F41 (1993), F42 (1995), F44 (2010), M11 (1972), M24 (1976), M57 (1993), M61 (rev.1, Feb 2022), M64 (2004), M65 (2004), M75 (Jan 2021), P1 (2001), P2.1 (Nov 2001), P2.2 (Nov 2001), P2.3 (Nov 2001), P2.4 (1974), P2.5 (Nov 2001), P2.6 (1987), P2.7 (Nov 2001), P2.8 (Nov 2001), P2.7.4 (rev. 10, Jan 2021), P2.8 (Nov 2001), P2.9 (1987), P2.10 (Nov 2001), P2.11 (rev. 5, Jan 2021), P2.12 (rev. 3, Feb 2021), P2.13 (rev. 1, Jan 2021), P3 (rev. 5, Apr 2021), P4 (rev. 7, Jun 2022)

**Unified Interpretations (UI):** SC56, SC58, SC99 (2005), SC111 (1995), SC118, SC123 (rev.3, Corr.1 2022), SC140 (1998), SC179 (rev. 3, Feb 2021), SC184 (2005), SC 232 (2009), SC 243 (2012), SC251 (2011), SC 255 (Cor.1 2013), MPC87 (Jan 2007), LL10 (2008), LL11 (2008), LL36 (2008), LL49 (2008), LL52 (2008), LL58 (2008)

**Recommendations (Rec.):** Rec. 100 (2008)

# 1 GENERAL

■ **Head 1.7 APPLICATION OF PLASTIC PIPES ON SHIPS**, items 1.7.1, 1.7.2 and sub-items 1.7.4.1, 1.7.6.10 have been amended and should be read as follows:

## 1.7.1 Terms and Definitions

- .1 **Plastic(s)** - means both thermoplastic and thermosetting plastic materials with or without reinforcement, such as PVC and fiber reinforced plastics - FRP. Plastic includes synthetic rubber and materials of similar thermo/mechanical properties.
- .2 **Pipes/piping systems** - means those made of plastic(s) and include the pipes, fittings, system joints, method of joining and any internal or external liners, coverings and coatings required to comply with the performance criteria.
- .3 **Joint** - means the location at which two pieces of pipe or a pipe and a fitting are connected together. The joint may be made by adhesive bonding, laminating, welding, flanges, and mechanical joints according to Fig. 1.3.7.4.
- .4 **Fittings** - means bends, elbows, fabricated branch pieces etc. of plastic materials.
- .5 **Nominal pressure** - means the maximum permissible working pressure, which should be determined in accordance with the requirements in 1.7.3.1.
- .6 **Design pressure** - means the maximum working pressure which is expected under operation conditions or the highest set pressure of any safety valve or pressure relief device on the system, if fitted.
- .7 **Fire endurance** - means the capability of piping to maintain its strength and integrity (i.e. capable of performing its intended function) for some predetermined period of time while exposed to fire.
- .8 **Essential to the safety of ship** - means all piping systems that in event of failure will pose a threat to personnel and the ship\*.
- .9 **Essential services** - are those services essential for propulsion and steering and safety of the ship as specified in the *Rules for the classification of ships, Part 12 - Electrical Equipment, 1.2.5.*

**Note:** \* Examples for piping systems essential to the safety are provided by Table 1.7.4.1 "Fire Endurance Requirement Matrix".

## 1.7.2 Scope

- .1 These requirements are applicable to plastic pipes/piping systems on ships, including pipe joints and fittings, made predominately of other material than metal.
- .2 **The use of mechanical joints approved for the use in metallic piping systems only are not permitted.**
- .3 Piping systems intended for non-essential services are to meet only the requirements of recognized standards and 1.7.3.1.3 b), 1.7.4.2, 1.7.5.2 to 1.7.5.7 and 1.7.6 of this Section.

## 1.7.4 Requirements for Pipes/Piping Systems Depending on Service and/or Locations

### 1.7.4.1 Fire Endurance

- .1 Pipes and their associated joints and fittings whose integrity is essential to the safety of ships, including plastic piping required by SOLAS II-2/21.4 to remain operational after a fire casualty, are required to meet the minimum fire endurance requirements of Appendix 1 or 2, as applicable, of IMO Res A.753(18), as amended by IMO Resolutions MSC. 313(88) and MSC.399(95).
- .2 Unless instructed otherwise by the Flag Administration, fire endurance tests are to be carried out with specimen representative for pipes, joints and fittings<sup>1</sup>:
  - a) Pipes:
    - for sizes with outer diameter <200 mm the minimum outer diameter and wall thickness<sup>2</sup>;
    - for sizes with outer diameter ≥200 mm one test specimen for each category of t/d (D = outer diameter, t = structural wall thickness). A scattering of ±10% for t/D is regarded as the same group. Minimum size approved is equal to the diameter of specimen successfully tested.
  - b) Joints:
    - Each type of joint applicable for applied fire endurance level tested on pipe to pipe specimen.
- .3 Means are to be provided to ensure a constant media pressure inside the test specimen during the fire test as specified in Appendix 1 or 2 of the IMO Resolution A.753(18), as amended by IMO Resolutions MSC.313(88) and MSC.399(95). During the test it is not permitted to replace media drained by fresh water or nitrogen.
- .4 Depending on the capability of a piping system to maintain its strength and integrity, there exist three different levels of fire endurance for piping systems.
  - a) *Level 1*. Piping having passed the fire endurance test specified in Appendix 1 of IMO Resolution A.753(18), as amended by IMO Resolutions MSC.313(88) and MSC.399(95) for a duration of a minimum of one hour without loss of integrity in the dry condition is considered to meet level 1 fire endurance standard (L1).  
*Level 1W* – Piping systems similar to Level 1 systems except these systems do not carry flammable fluid or any gas and a maximum 5% flow loss in the system after exposure is acceptable (L1W).

- b) *Level 2*. Piping having passed the fire endurance test specified in Appendix 1 of IMO Resolution A.753(18), as amended by IMO Resolutions MSC.313(88) and MSC.399(95) for a duration of a minimum of 30 minutes in the dry condition is considered to meet level 2 fire endurance standard (L2). Level 2W – Piping systems similar to Level 2 systems except a maximum 5% flow loss in the system after exposure is acceptable (L2W).
- c) *Level 3*. Piping having passed the fire endurance test specified in Appendix 2 of IMO Res. A.753(18) as amended by IMO Resolutions MSC.313(88) and MSC.399(95) for duration of a minimum of 30 minutes in the wet condition is considered to meet level 3 fire endurance standard (L3).
- .5** Permitted uses of piping depending on fire endurance, location and piping system is given in Table 1.7.4.1 “Fire Endurance Requirement Matrix”.
- .6** For Safe Return to Port purposes (SOLAS II-2/21.4), plastic piping can be considered to remain operational after a fire casualty if the plastic pipes and fittings have been tested to L1 standard.

**Notes:**

1. A test specimen incorporating several components of a piping system may be tested in a single test.
2. Test conditions are most demanding for minimum wall thickness and thus larger wall thickness is covered. A key factor determining the fire performance of a pipe component variant is the thickness-to-diameter (t/D) ratio and whether it is larger or smaller than that of the variant which has been fire-tested. If fire-protective coatings or layers are included in the variant used in the fire test, only variants with the same or greater thickness of protection, regardless of the (t/D) ratio, shall be qualified by the fire test.

**Table 1.7.4.1-1**

Fire Endurance Requirement Matrix

ABBREVIATIONS	
L1	Fire endurance test (appendix 1 of IMO Resolution A.753(18), as amended by IMO Resolutions MSC.313(88) and MSC.399(95)) in dry conditions, 60 min
L1W	Fire endurance test (section 1.7.4.1.2)
L2	Fire endurance test (appendix 1 of IMO Resolution A.753(18), as amended by IMO Resolutions MSC.313(88) and MSC.399(95)) in dry conditions, 30 min
L2W	Fire endurance test (section 1.7.4.1.2)
L3	Fire endurance test (appendix 2 of IMO Resolution A.753(18), as amended by IMO Resolutions MSC.313(88) and MSC.399(95)) in wet conditions, 30 min
0	No fire endurance test required
NA	Not applicable
X	Metallic materials having a melting point greater than 925 °C

**Table 1.7.4.1-2**

LOCATION DEFINITIONS		
Loc.	Definition	Description
A	Machinery spaces of category A	Machinery spaces of category A as defined in the <i>Rules, Part 7 – Machinery Installation, 1.2.5.</i>
B	Other machinery spaces and pump rooms	Spaces, other than category A machinery spaces and cargo pump rooms, containing propulsion machinery, boilers, fuel oil units, steam and internal combustion engines, generators, and major electrical machinery, oil filling stations, refrigerating, stabilizing, ventilation and air-conditioning machinery, and similar spaces, and trunks to such spaces.
C	Cargo pump rooms	Spaces containing cargo pumps and entrances and trunks to such spaces.
D	Ro/Ro cargo holds	Ro-Ro cargo spaces and special category spaces as defined in 3.1.2.41 & 46 of the <i>Rules Part 17 – Fire Protection.</i>
E	Other dry cargo holds	All spaces other than ro-ro cargo holds used for non-liquid cargo and trunks to such spaces.
F	Cargo Tanks	All spaces used for liquid cargo and trunks to such spaces.
G	Fuel oil Tanks	All spaces used for fuel oil (excluding cargo tanks) and trunks to such spaces.
H	Ballast water tanks	All spaces used for ballast water and trunks to such spaces.
I	Cofferdams, void spaces, pipe tunnel and ducts	Cofferdams and voids are those empty spaces between two bulkheads separating two adjacent compartments.
J	Accommodation service and control spaces	Accommodation spaces, service spaces and control stations as defined in 3.1.2.1; 45 & 18 of the <i>Rules Part 17 – Fire Protection.</i>
K	Open decks	Open deck spaces as defined in 9.2.2.3.2(5) of the <i>Rules Part 17 – Fire Protection.</i>

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**Table 1.7.4.1-3**

INERT GAS												
No.	Piping system	A	B	C	D	E	F	G	H	I	J	K
1	Cargo lines	NA	NA	L1	NA	NA	0	NA	0 <sup>(10)</sup>	0	NA	L1 <sup>(2)</sup>
2	Crude oil washing lines	NA	NA	L1	NA	NA	0	NA	0 <sup>(10)</sup>	0	NA	L1 <sup>(2)</sup>
3	Vent lines	NA	NA	NA	NA	NA	0	NA	0 <sup>(10)</sup>	0	NA	X

**Table 1.7.4.1-4**

INERT GAS												
No.	Piping system	A	B	C	D	E	F	G	H	I	J	K
4	Water seal effluent line	NA	NA	0 <sup>(1)</sup>	NA	NA	0 <sup>(1)</sup>	0 <sup>(1)</sup>	0 <sup>(1)</sup>	0 <sup>(1)</sup>	NA	0
5	Scrubber effluent line	0 <sup>(1)</sup>	0 <sup>(1)</sup>	NA	NA	NA	NA	NA	0 <sup>(1)</sup>	0 <sup>(1)</sup>	NA	0
6	Main line	0	0	L1	NA	NA	NA	NA	NA	0	NA	L1 <sup>(6)</sup>
7	Distribution lines	NA	NA	L1	NA	NA	0	NA	NA	0	NA	L1 <sup>(2)</sup>

**Table 1.7.4.1-5**

LIQUIDS (flash point > 60°C)												
No.	Piping system	A	B	C	D	E	F	G	H	I	J	K
8	Cargo line	X	X	L1	X	X	NA <sup>(3)</sup>	0	0 <sup>(10)</sup>	0	NA	L1
9	Fuel oil	X	X	L1	X	X	NA <sup>(3)</sup>	0	0	0	L1	L1
10	Lubricating	X	X	L1	X	X	NA	NA	NA	0	L1	L1
11	Hydraulic oil	X	X	L1	X	X	0	0	0	0	L1	L1

**Table 1.7.4.1-6**

SEAWATER <sup>(1)</sup>												
No.	Piping system	A	B	C	D	E	F	G	H	I	J	K
12	Bilge main and branches	L1 <sup>(7)</sup>	L1 <sup>(7)</sup>	L1	X	X	NA	0	0	0	NA	L1
13	Fire main and water spray	L1	L1	L1	X	NA	NA	NA	0	0	X	L1
14	Foam system	L1W	L1W	L1W	NA	NA	NA	NA	NA	0	L1W	L1W
15	Sprinkler system	L1W	L1W	L3	X	NA	NA	NA	0	0	L3	L3
16	Ballast	L3	L3	L3	L3	X	0 <sup>(10)</sup>	0	0	0	L2W	L2W
17	Cooling water, essential services	L3	L3	NA	NA	NA	NA	NA	0	0	NA	L2W
18	Tank cleaning services, fixed machines	NA	NA	L3	NA	NA	0	NA	0	0	NA	L3 <sup>(2)</sup>
19	Non-essential systems	0	0	0	0	0	NA	0	0	0	0	0

**Table 1.7.4.1-7**

FRESHWATER												
No.	Piping system	A	B	C	D	E	F	G	H	I	J	K
20	Cooling water, essential services	L3	L3	NA	NA	NA	NA	0	0	0	L3	L3
21	Condensate return	L3	L3	L3	0	0	NA	NA	NA	0	0	0
22	Non-essential systems	0	0	0	0	0	NA	0	0	0	0	0

Table 1.7.4.1-8

SANITARY / DRAINS / SCUPPERS												
No.	Piping system	A	B	C	D	E	F	G	H	I	J	K
23	Deck drains (internal)	L1W <sup>(4)</sup>	L1W <sup>(4)</sup>	NA	L1W <sup>(4)</sup>	0	NA	0	0	0	0	0
24	Sanitary drains (internal)	0	0	NA	0	0	NA	0	0	0	0	0
25	Scuppers and discharges (overboard)	0 <sup>(1,8)</sup>	0 <sup>(1,8)</sup>	0 <sup>(1,8)</sup>	0 <sup>(1,8)</sup>	0 <sup>(1,8)</sup>	0	0	0	0	0 <sup>(1,8)</sup>	0

Table 1.7.4.1-9

SOUNDING / AIR												
No.	Piping system	A	B	C	D	E	F	G	H	I	J	K
26	Water tanks/dry spaces	0	0	0	0	0	0 <sup>(10)</sup>	0	0	0	0	0
27	Oil tanks (flash point > 60°C)	X	X	X	X	X	X <sup>(3)</sup>	0	0 <sup>(10)</sup>	0	X	X

Table 1.7.4.1-10

MISCELLANEOUS												
No.	Piping system	A	B	C	D	E	F	G	H	I	J	K
28	Control air	L1 <sup>(5)</sup>	L1 <sup>(5)</sup>	L1 <sup>(5)</sup>	L1 <sup>(5)</sup>	L1 <sup>(5)</sup>	NA	0	0	0	L1 <sup>(5)</sup>	L1 <sup>(5)</sup>
29	Service air (non-essential)	0	0	0	0	0	NA	0	0	0	0	0
30	Brine	0	0	NA	0	0	NA	NA	NA	0	0	0
31	Auxiliary low pressure steam (≤ 7 bar)	L2W	L2W	0 <sup>(9)</sup>	0 <sup>(9)</sup>	0 <sup>(9)</sup>	0	0	0	0	0 <sup>(9)</sup>	0 <sup>(9)</sup>
32	Central vacuum cleaners	NA	NA	NA	0	NA	NA	NA	NA	0	0	0
33	Exhaust Gas Cleaning System Effluent Line	L3 <sup>(1)</sup>	L3 <sup>(1)</sup>	NA	NA	NA	NA	NA	NA	0	L3 <sup>(1,11)</sup> NA	0
34	Urea Transfer/Supply System (SCR installations)	L1 <sup>(12)</sup>	L1 <sup>(12)</sup>	NA	NA	NA	NA	NA	NA	0	L3 <sup>(11)</sup> NA	0

Table 1.7.4.1-11

FOOTNOTES	
1	Where non-metallic piping is used, remotely controlled valves to be provided at ship's side (valve is to be controlled from outside space).
2	Remote closing valves to be provided at the cargo tanks.
3	When cargo tanks contain liquids with flash point >60 C, "0" may replace "NA" or "X".
4	For drains serving only the space concerned, "0" may replace "L1W".
5	When controlling functions are not required by statutory requirements or guidelines "0" may replace "L1".
6	For pipe between machinery space and deck water seal, "0" may replace "L1".
7	For passenger ships, "X" is to replace "L1".
8	Scuppers serving open decks in positions 1 and 2, as defined in Regulation 13 of Protocol of 1988 relating to the International Convention on Load Lines, 1966, as amended, should be "X" throughout unless fitted at the upper end with the means of closing capable of being operated from a position above the freeboard deck in order to prevent downflooding.
9	For essential services, such as fuel oil tank heating and ships whistle, "X" is to replace "0".
10	For tankers where compliance with paragraph 6 of regulation 19 of MARPOL Annex I, as amended is required, "NA" is to replace "0".
11	L3 in service spaces, NA in accommodation and control spaces
12	Type Approved plastic piping without fire endurance test (0) is acceptable downstream of the tank valve, provided this valve is metal seated and arranged as fail-to-closed or with quick closing from a safe position outside the space in the event of fire.

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**FOOTNOTES**

13	For Passenger Ships subject to SOLAS II-2/21.4 (Safe return to Port), plastic pipes for services required to remain operative in the part of the ship not affected by the casualty thresholds, such as systems intended to support safe areas, are to be considered essential services. In accordance with MSC Circular MSC.1/Circ.1369, interpretation 12, for Safe Return to Port purposes, plastic piping can be considered to remain operational after a fire casualty if the plastic pipes and fittings have been tested to L1 standard.
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**1.7.6 Installation****1.7.6.10 Testing After Installation on Board**

- .1 Piping systems for essential services are to be subjected to a test pressure not less than 1.5 times the design pressure or 4 bar whichever is greater. **Notwithstanding the requirement above, the requirement in 1.7.6.10.2 may be applied to open ended pipes (drains, effluent, etc.).**
- .2 Piping systems for non-essential services are to be checked for leakage under operational conditions.
- .3 For piping required to be electrically conductive, earthing is to be checked and random resistance testing is to be conducted.