

RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

Part D

Machinery Installations

Rules for the Survey and Construction of Steel Ships

Part D

2012 AMENDMENT NO.1

Guidance for the Survey and Construction of Steel Ships

Part D

2012 AMENDMENT NO.1

Rule No.29 / Notice No.43

15th June 2012

Resolved by Technical Committee on 10th February 2012

Approved by Board of Directors on 6th March 2012

RULES FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

Part D

Machinery Installations

RULES

2012 AMENDMENT NO.1

Rule No.29 15th June 2012

Resolved by Technical Committee on 10th February 2012

Approved by Board of Directors on 6th March 2012

“Rules for the survey and construction of steel ships” has been partly amended as follows:

Part D MACHINERY INSTALLATIONS

Chapter 12 PIPES, VALVES, PIPE FITTINGS AND AUXILIARIES

12.3 Construction of Valves and Pipe Fittings

12.3.4 Flexible Hose Assemblies

Sub-paragraph -3 has been amended as follows.

3 Installation, design and construction of flexible hose assemblies are to comply with follows.

(1) Installation requirements

- (a) Flexible hoses are not to be subjected to torsional deflection (twisting) under normal operating conditions.
- (b) Flexible hoses are to be installed in clearly visible and readily accessible locations.
- (c) The number of flexible hoses is to be kept to a minimum.
- (d) Flexible hoses are to be limited to the necessary minimum length.
- (e) Any hose contact that could cause rubbing and abrasion is to be avoided.
- (f) The installation of flexible hoses is to take into account the allowable minimum bend radius.
- (g) In cases where flexible hoses are intended to be used for flammable oil pipes which are in close proximity to heated surfaces, the risk of ignition due to a failure of the hose assembly and the subsequent release of any fluids is to be mitigated by the use of screens or other similar protection.
- (h) Flexible hoses are to be installed in accordance with the manufacturer’s instruction.

(2) Design requirements

- (a) The design of flexible hoses is to take into account ambient conditions, compatibility with fluids under working pressure and temperature conditions.
- (b) Hose clamps and other similar types of end fittings are not to be used for flexible hoses in pipes for steam, flammable oil, starting air and for sea water where failure may result in flooding. For other pipes, the use of hose clamps may be accepted where the working pressure is less than 0.5MPa and provided there are double clamps at each end connection.
- (c) The design of flexible hoses, where pressure pulses and/or high levels of vibration are expected to occur during use, is to take into account the maximum expected impulse peak pressure as well as any other forces due to vibration.

(3) Construction requirements

Non-metallic flexible hoses are to conform to the following requirements:

- (a) Non-metallic flexible hoses are to incorporate woven integral wire braid or other suitable material reinforcement where used for pipes specified in **12.4.3-2(1)** through **(6)**. Where

- specialty approved by the Society, the reinforcement may be exempted.
- (b) In cases where non-metallic flexible hoses are to be used for fuel oil supply lines to burners, they are to have external wire braid protection.
 - (c) Non-metallic flexible hoses used for flammable oil and sea water pipes where failure may result in flooding are to be of a fire resistant type except in cases where such hoses are installed on exposed open decks.

EFFECTIVE DATE AND APPLICATION

1. The effective date of the amendments is 15 June 2012.

GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

Part D

Machinery Installations

GUIDANCE

2012 AMENDMENT NO.1

Notice No.43 15th June 2012

Resolved by Technical Committee on 10th February 2012

Notice No.43 15th June 2012

AMENDMENT TO THE GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF STEEL SHIPS

“Guidance for the survey and construction of steel ships” has been partly amended as follows:

Part D MACHINERY INSTALLATIONS

Amendment 1-1

D12 PIPES, VALVES, PIPE FITTINGS AND AUXILIARIES

D12.3 Construction of Valves and Pipe Fittings

Paragraph D12.3.4 has been amended as follows.

D12.3.4 Flexible Hose Assemblies

1 The wording “to be approved by the Society” in **12.3.4-2, Part D of the Rules** means that approval is to be made in accordance with **2.4.2-11, Chapter 2, Part 6 of the Guidance for the Approval and Type Approval of Materials and Equipment for Marine Use**.

2 The wording “exposed open decks” in **12.3.4-3, Part D of the Rules** means “open decks” as defined in **9.2.3-2.(10)** and **9.2.4-2.(10), Part R of the Rules** except for the cargo areas of tankers, ships carrying liquefied gases in bulk and ships carrying dangerous chemicals in bulk.

EFFECTIVE DATE AND APPLICATION (Amendment 1-1)

- 1.** The effective date of the amendments is 15 June 2012.

Amendment 1-2

Annex D12.1.6-2 GUIDANCE FOR THE SURVEY AND CONSTRUCTION OF PLASTIC PIPES

1.2 Terminology

Sub-paragraph (3) has been amended as follows.

- (3) “FTP Code” means as defined in **3.2.23, Part R of the Rules**~~the “*INTERNATIONAL CODE FOR APPLICATION OF FIRE TEST PROCEDURES*”, as adopted by the Maritime Safety Committee of the International Maritime Organization by resolution MSC.61(67) adopted on 5 December 1996.~~

EFFECTIVE DATE AND APPLICATION (Amendment 1-2)

1. The effective date of the amendments is 1 July 2012.