

**PARTE II    RULES FOR THE CONSTRUCTION  
AND CLASSIFICATION OF VESSELS  
ACCORDING TO THEIR MISSIONS**

**TITLE 45    FLOATING CRANES**

**SECTION 3    HULL EQUIPMENT**

CHAPTERS

- A    SCOPE
- B    DOCUMENTS, REGULATIONS AND STANDARDS  
      - See Part II, Title 11, Section 3, Chapter B
- C    MATERIALS AND WORKMANSHIP  
      - See Part II, Title 11, Section 3, Chapter B
- D    REQUIRMENTS FOR SYSTEMS
- T    INSPECTIONS AND TESTS



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## CHAPTER A SCOPE

### CHAPTER CONTENTS

- A1. APPLICATION
- A2. DEFINITIONS  
- See Part II, Title 11, Section 3
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## A1. APPLICATION

### 100. Nature of the systems

101. This Section of this Title applies to derricks hull equipment of floating cranes.

## CHAPTER D REQUIREMENTS FOR SYSTEMS

### CHAPTER CONTENTS

- D1 CARGO LIFTING APPLIANCE
- D2. ANCHORING, MOORING AND TOWING  
-See Part II, Title 11, Section 3
- D3. MANEUVRING SYSTEM  
-see Part II, Title 11, Section 3
- D4. SALVAGE EQUIPMENT  
-See Part II, Title 11, Section 3
- D5. FIREFIGHTING EQUIPMENT  
-See Part II, Title 11, Section 3
- D6. HULL OPENINGS-  
PROTECTION AND CLOSING  
-see Part II, Title 11, Section 3
- D7. HULL EQUIPMENT ACCESSORIES  
AND APPENDAGES  
-see Part II, Title 11, Section 3
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## D1. CARGO LIFTING APPLIANCE

### 100. Application

101. This Subchapter applies to cargo lifting appliances in floating cranes.

## 200. Definitions

See RBNA Guide to Shipboard Lifting Appliances

## 300. Arrangements

See RBNA Guide to Shipboard Lifting Appliances

## 400. Design assumptions

401. Work systems of the lifting appliance are defined by charts of loads which are to be presented to the RBNA. The design assumptions and calculations are to be in compliance with the RBNA Guide to Shipboard Lifting Appliances.

402. The stresses of the several components, calculated for the SWL, are not to exceed the values:

$$\sigma_c = \sqrt{\sigma^2 + 3 \times \tau^2} \leq 128 \text{ N/mm}^2$$

(13 kgf/mm<sup>2</sup>)

where:

$$\sigma \leq 0,60 \times \sigma_y$$

$$\tau \leq 0,40 \times \sigma_y$$

where  $\sigma_y$  is the yield strength.

## **CHAPTER T INSPECTIONS AND TESTS**

### **CHAPTER CONTENTS**

- T1. CARGO LIFTING
  - T2. ANCHORING, MOORING AND TOWING  
-See Part II, Title 11, Section 3
  - T3. MANEUVRING SYSTEM  
-See Part II, Title 11, Section 3
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-See Part II, Title 11, Section 3
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  - T6. HULL OPENINGS-  
PROTECTION AND CLOSING  
-See Part II, Title 11, Section 3
  - T8. HULL EQUIPMENT AND APPENDAGES  
-See Part II, Title 11, Section 3
- 

### **T1. CARGO LIFTING**

#### **100. Performance test**

101. Performance tests and test loads are to be in compliance with the RBNA Guide to Shipboard Lifting Appliances.

102. After testing the parts shall be disassembled for inspection, chosen by sampling by the Surveyor. As a minimum, 1/5 of the parts of each type shall be inspected.

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