

# Lists of Approved Anchors

## Section

## 1 Introduction

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### 1.1 General

1.1.1 The requirements for mass of anchor related to the Equipment Number for the ship are given in Part 3, Chapter 13 of the Rules for the Classification of Ships and the requirements for testing and the proof and breaking loads are given in Part 2, Chapter 10 of the Rules for Classification of Ships.

1.1.2 It is a requirement of Lloyd's Register that anchors used on board classed ships are to be of an approved design, that is, for the design to have been granted General Approval. For approval purposes, plans of the anchor design are to be submitted for examination and calculations are made of the strength of the component parts relative to the required tabular proof load corresponding to the mass of the anchor. Approval may be given for a specific anchor mass or for a range of masses of geometrically similar anchors.

It should be noted that the approval of an anchor design includes the anchor shackle. Where a swivel shackle is used instead of a normal shackle, the anchor design should be specifically approved for use with the swivel shackle.

Swivel shackles are also required to satisfy the Rule requirements for fittings of chain cables. (See also Pt 2, Ch 10, 2.13 of the Rules for Ships.)

1.1.3 In addition, High Holding Power anchors are required to be tested in different seabeds in comparison with an ordinary anchor or other previously approved High Holding Power anchor, in accordance with the Rules.

1.1.4 Anchors are to be constructed in accordance with the Rules from materials which have been approved by Lloyd's Register. The responsibility for ensuring that the anchor complies with the requirements of the approved drawings rests with the manufacturer. On completion the anchor will be examined by the LR Surveyor and tested in accordance with the Rules, after which a certificate should remain available to the owner of the anchor throughout its life.

1.1.5 The lists contained in this publication contain relevant details of all approved designs of anchors of mass exceeding 75kg (56kg for high holding power anchors) in three categories:

- ordinary anchors
- high holding power anchors
- mooring anchors

1.1.6 Which category the anchor falls into is indicated by its name and/or by the type designation given in the List.

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| List 1 | contains details of approved anchors which are stated by the manufacturers to be in current production.   |
| List 2 | contains details of anchors which have been approved previously but which are no longer in production, although examples may be found in service. |

1.1.7 Further information concerning these anchors may be obtained from LR's Headquarters, London, reference Ship Structures.

1.1.8 Designs of anchors of mass less than 75kg are not included in these lists and further information concerning these may be obtained from LR's Headquarters, reference Special Service Craft Department.

1.1.9 It should be noted that certain anchor designs are protected by patents. Intending manufacturers should ascertain the patent position and arrange to obtain appropriate licences where necessary.

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1.1.10 Line sketches of a number of anchor designs, indicating the broad features of the type, are included in this publication to assist in identification, and the lists of approved anchors contain references relating to these sketches. Nothing in these references and sketches should, however, be taken to imply that a licence has been, or would need to be, obtained by a particular manufacturer to produce anchors of that type.

1.1.11 By each list the entries are given in the following form:

- by country of the manufacturer in alphabetical order,
- by manufacturer within that country in alphabetical order,
- by name of anchor for the manufacturer.

1.1.12 For each anchor in the manufacturer's range the following information is given:

*Anchor Name* This is the name as stated by the manufacturer.

*Type* This is an identifying letter(s) referring to the line sketches showing broad types of anchor designs. As stated above, reference to a particular type is purely for descriptive purposes and is not to be taken as implying that the manufacturer has authority to manufacture anchors of that design.

Where the first letter of a two letter type code is 'H', then this signifies that the anchor is a High Holding Power anchor.

*Cert. No.* This is the number of the Certificate of General Approval of an Anchor Design as issued by Lloyd's Register. Certificate numbers are in the form ANCH and a four digit number and have a validity of 10 years from the date of issue unless renewed. The number may be prefixed by letters to identify the LR plan approval office where this is not LRHQ, e.g. SPA ANCH0010.

*Weight Range* This is the range of masses of geometrically similar anchors covered by the approval. Common practice is to refer to weight rather than mass although this is, strictly, incorrect.

*Proportions* These are the standard dimension ratios used to describe an anchor and are illustrated in the first line sketch in Section 2.

*Date of Approval* This is the date on which the anchor design was approved by Lloyd's Register and is in the form DD.MM.YY. In the case of certain older designs the date of approval is no longer known and this entry is left blank.

1.1.13 The anchor type and certificate number entries are suppressed in the list of anchors no longer in production.

1.1.14 Lloyd's Register would be glad to be advised of any errors or omissions in these Lists. These will be corrected in subsequent editions, which will also include details of new anchors approved since preparation of this edition.

1.1.15 This document is now published electronically, and is not available as a printed hard copy. Updates will be incorporated as necessary. For the latest edition, see LR's website ref: [www.lr.org](http://www.lr.org)