
**Ships and marine technology — Ship's
mooring and towing fittings — Recessed
bitts (Casting type)**

*Navires et technologie maritime — Corps-morts et ferrures de
remorquage de navires — Bittes d'amarrage encastrées (type moulage)*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

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Introduction

The recessed bitt is a type of ship's towing fitting installed on the side shell of the ship.

The recessed bitts are normally provided to easily attach the towing lines where the height of the mooring deck is too high.

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1 Scope

This International Standard specifies the design, size and technical requirements for casting type recessed bitts to meet normal towing requirements.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IMO Circular MSC/Circ.1175, *Guidance on shipboard towing and mooring equipment*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

safe working load

SWL

maximum load in kN on the rope that should normally be applied in service conditions.

4 Classification

4.1 Type

Depending on the size and strength of the material, recessed bitts shall be classified as the following six types:

- Type 75 – nominal size 850, casting material having a yield point of not less than 235 N/mm²
- Type 110 – nominal size 850, casting material having a yield point of not less than 350 N/mm²
- Type 135 – nominal size 850, casting material having a yield point of not less than 430 N/mm²
- Type 100 – nominal size 920, casting material having a yield point of not less than 235 N/mm²
- Type 150 – nominal size 920, casting material having a yield point of not less than 350 N/mm²
- Type 180 – nominal size 920, casting material having a yield point of not less than 430 N/mm²

4.2 Nominal sizes

The nominal sizes of recessed bitts are denoted by reference to the outside diameter of the bitt, in millimetres.

The nominal size is: 850 and 920.

5 Dimensions

Recessed bitts have dimensions and particulars in accordance with Table 1 and Figure 1.