

INTERNATIONAL STANDARD

ISO
9093-1

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Small craft — Seacocks and through-hull fittings —

Part 1: Metallic

*Navires de plaisance — Vannes de coque et passe-coques —
Partie 1: Construction métallique*



Reference number
ISO 9093-1:1994(E)

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.

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.

International Standard ISO 9093-1 was prepared by Technical Committee ISO/TC 188, *Small craft*.

ISO 9093 consists of the following parts, under the general title *Small craft — Seacocks and through-hull fittings*:

- Part 1: *Metallic*
- Part 2: *Non-metallic*

Small craft — Seacocks and through-hull fittings —

Part 1: Metallic

1 Scope

This part of ISO 9093 specifies requirements for metallic through-hull fittings, seacocks and rose fittings that specifically form part of water intake and discharge lines, and for wet exhaust outlets used in small craft of up to 24 m length of hull. Through-hull fittings for other purposes are not covered.

This part of ISO 9093 applies to seacocks and through-hull fittings with cylindrical pipe threads in accordance with ISO 228-1, and with joints for conical pipe threads in accordance with ISO 7-1, with nominal diameters of 1/4 in, 3/8 in, 1/2 in, 3/4 in, 1 in, 1 1/4 in, 1 1/2 in, 2 in, 2 1/2 in, 3 in or 4 in.

NOTE 1 The reasons for developing this part of ISO 9093 are that detail dimensions of components of water intake and discharge lines, and wet exhaust outlets passing through a craft hull differ considerably, thus limiting the interchangeability of these parts.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 9093. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 9093 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 7-1:1994, *Pipe threads where pressure-tight joints are made on the threads — Part 1: Dimensions, tolerances and designation*.

ISO 228-1:1994, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation*.

3 Definitions

For the purposes of this part of ISO 9093, the following definitions apply.

3.1 through-hull fitting: Any fitting designed to permit passage of liquids or gases through the hull.

3.2 seacock: Any valve of the ball, cylinder, plug, gate or butterfly type directly fitted to a hull or a through-hull fitting.

3.3 corrosion-resistant: Material used for a fitting which, within a service time of five years, does not display any defect that will impair tightness, strength or function.

3.4 protection against corrosion: Any metallic or non-metallic sheathing or coating on materials that are not corrosion-resistant such that the fitting within a service time of five years does not display any defect that will impair tightness, strength or function.

3.5 readily accessible: Capable of being reached for operation, inspection or maintenance without removal of any craft structure or use of any tools or removal of any item of portable equipment stowed in places intended for storage of portable equipment such as lockers, drawers or shelves.