INTERNATIONAL STANDARD

ISO 9093

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Sn. hull Petits navir. Small craft — Seacocks and through-



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Contents				Page
Fore	word			iv
1	Scope			1
2	Normati	ve references		1
3	Terms and definitions			
4		requirements		
	4.1 General			
		aterial combinations		
		4.4 Strength requirements		
		5.1 General operating requirements		
		5.2 Storage temperature requirement		
		High temperature operating test		
		5.4 Low temperature operating test		
5		-hull fittings		
		nread identification		
		eneral design requirementsetailed design requirements		
		3.1 Stem		
	5.	3.2 Flange diameter		
	5.	3.3 Finish		5
6	Seacocks — Design requirements			5
		eneral		
		6.2 Thread length requirements		
7	Hose fittings 7.1 Design requirements			6
		esign requirementsose connection		
•				
8		oops and outboard water strainers		
9		on		
	9.1 H	all reinforcements		7 7
	7.2 11.	stallation requirementsstallation information	CV	
10	Device ii	istallation information		8
11	Owner's	Owner's manual		
Annex A (normative) Strength test				9
Ann	ex B (norma	tive) Corrosion resistance test		10
Ann	ex C (norma	tive) UV stabilisation test		11
Bibliography				12
	3 · F · S · · · ·			

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 188, *Small craft*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 464, *Small craft*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This first edition of ISO 9093 cancels and replaces ISO 9093-1:1994 and ISO 9093-2:2002, which have been technically revised.

The main changes compared to the previous editions are as follows:

- the previous 2 parts have been combined into a single-part standard;
- the definition of corrosion resistance has changed;
- an installed strength test has been added (Annex A);
- a test for corrosion resistance has been added (<u>Annex B</u>);
- a test for UV stabilisation has been added (Annex C).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Small craft — Seacocks and through-hull fittings

1 Scope

This document specifies requirements for through-hull fittings, seacocks, hose connections, their fittings and their installation in small craft with a length of hull, $L_{\rm H}$, as defined in ISO 8666:2020, of up to 24 m.

This document is not applicable to engine and heater exhaust fittings, and sail drive through-hull fittings.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 4892-3:2016, Plastics — Methods of exposure to laboratory light sources — Part 3: Fluorescent UV lamps

ISO 6509-1:2014, Corrosion of metals and alloys — Determination of dezincification resistance of copper alloys with zinc — Part 1: Test method

ISO 6509-2:2017, Corrosion of metals and alloys — Determination of dezincification resistance of copper alloys with zinc — Part 2: Assessment criteria

ISO 14993:2018, Corrosion of metals and alloys — Accelerated testing involving cyclic exposure to salt mist, dry and wet conditions

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

3.1

through-hull fitting

device fitting designed to permit passage of liquids including suspended solids or gases through the hull

3.2

seacock

shut-off device intended to prevent the ingress of water, normally directly fitted to a hull or a through-hull fitting

3.3

accessible

capable of being reached for inspection, removal or maintenance without removal of permanent craft structure

3.4

readily accessible

capable of being reached quickly and safely for effective use under emergency conditions without the use of tools