

Small craft — Remote steering systems

The European Standard EN 28848:1993, with the incorporation of amendment A1:2000, has the status of a British Standard

ICS 47.080

Cooperating organizations

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United Kingdom	British Standards Institution

This British Standard, having been prepared under the direction of the General Mechanical Engineering Standards Policy Committee, was published under the authority of the Standards Committee and comes into effect on 15 November 1993

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Contents

	Page
Cooperating organizations	Inside front cover
National foreword	ii
Foreword	2
1 Scope	3
2 Definitions	3
3 General requirements	3
4 Outboard motor and inboard-outdrive requirements	6
5 Steering system requirements	6
6 Installation	8
7 Test requirements	9
Annex A (informative)	14
Annex ZB (informative) Clauses of this European Standard addressing essential requirements or other provisions of EU Directives	15
National annex NA (informative) Committees responsible	16
National annex NB (informative) Cross-reference	16
Figure 1 — Output ram	4
Figure 2 — Boat-mounted steering system	5
Figure 3 — Motor-mounted steering tube	7
Figure 4 — Motor-mounted steering tilt axis	7
Figure 5 — Steering-wheels	8
Figure 6 — Motor-mounted steering system	8
Figure 7 — Steering shafts and steering-wheels hubs	12
Figure 8 — Output ram fatigue test	13
Figure 9 — Steering-wheel impact test fixture	13

National foreword

This British Standard has been prepared under the direction of the General Mechanical Engineering Standards Policy Committee and is the English language version of EN 28848:1993 *Small craft — Remote steering systems*, including amendment A1:2000, published by the European Committee for Standardization (CEN).

BS EN 28848:1993 supersedes BS 7492:1991, which is withdrawn.

EN 28848 was produced as a result of international discussion in which the United Kingdom took an active part.

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Summary of pages

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English version

Small craft — Remote steering systems

(includes amendment A1:2000)
(ISO 8848:1990)

Navires de plaisance — Appareils à gouverner
commandés à distance
(inclut l'amendement A1:2000)
(ISO 8848:1990)

Kleine Wasserfahrzeuge —
Steueranlagen
(enthält Änderung A1:2000)
(ISO 8848:1990)

This European Standard was approved by CEN on 1993-08-19. Amendment A1:2000 was approved by CEN on 2000-10-01. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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CEN

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Foreword

This European Standard is the endorsement of ISO 8848. Endorsement of ISO 8848 was recommended by CEN/BT/WG 69, Small craft. A formal vote was done and the document was approved as a European Standard.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 1994, and conflicting national standards shall be withdrawn at the latest by February 1994.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom

Foreword to amendment A1

This amendment EN 28848:1993/A1:2000 to EN 28848:1993 has been prepared by CEN/CMC.

This amendment to the European Standard EN 28848:1993 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2001, and conflicting national standards shall be withdrawn at the latest by March 2001.

This amendment to the European Standard EN 28848:1993 has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZB, which is an integral part of this standard.

In accordance with the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom

1 Scope

This International Standard specifies requirements and test methods for remote push-pull cable steering systems and their major component items, used for small craft with single and twin installations of outboard motors of over 15 kW power, and all inboard motors, inboard motor-outdrives, and water-jet drives.

2 Definitions

For the purposes of this International Standard, the following definitions apply.

2.1

steering system

assembly including all components necessary to transmit remote manual effort to the rudder, outboard motor, inboard-outdrive or water-jet drive

2.2

boat-mounted steering system

system in which an output ram guide tube is secured to the boat

2.3

motor-mounted steering system

system in which an output ram guide tube is secured to the engine

2.4

drag link

device in a motor-mounted steering system by which the linear force of the output ram is transmitted to the motor steering arm

2.5

helm

mechanism, exclusive of a steering-wheel or other means for manual application of controlling force, by which controlling force is fed into a steering system cable or other force-transmission means

2.6

minimum retained system performance

system capability after test(s) such that at least 90 % of the steering arc normally available each side of the mid-position may be obtained by exertion of no more than 27 N·m of torque at the helm, through the wheel or other normal control

this criterion does not define steering system performance while a boat is underway but is intended to provide quantitative limits for design and test purposes

3 General requirements

3.1 When steering systems are factory-installed in the boat, the complete system shall be supplied. In outboard motor-boats, the system shall be supplied complete to the interface point at the ram output end as shown in Figure 1.