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**Small craft — Liquefied petroleum gas  
(LPG) systems**

*Petits navires — Installations alimentées en gaz de pétrole liquéfiés  
(GPL)*



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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

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.

ISO 10239 was prepared by Technical Committee ISO/TC 188, *Small craft*.

This second edition cancels and replaces the first edition (ISO 10239:2000), which has been technically revised. It also incorporates the Technical Corrigendum ISO 10239:2000/Cor.1:2001.

# Small craft — Liquefied petroleum gas (LPG) systems

## 1 Scope

This International Standard covers permanently installed liquefied petroleum gas (LPG) systems and LPG burning appliances on small craft of hull length up to 24 m, except for systems used on LPG-fuelled propulsion engines or LPG-driven generators.

This International Standard does not cover appliances with directly attached gas cylinders, such as portable self-contained camping stoves and portable gas lamps.

NOTE 1 This International Standard is not intended to regulate technical requirements for LPG cylinders, which are subject to national regulations.

NOTE 2 New designs, materials and methods of assembly giving at least equivalent results can be considered to be complying with the requirements of this International Standard when approved by a relevant body.

## 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.

ISO 2928, *Rubber hoses and hose assemblies for liquefied petroleum gas (LPG) in the liquid or gaseous phase and natural gas up to 25 bar (2,5 MPa) — Specification*

ISO 8846, *Small craft — Electrical devices — Protection against ignition of surrounding flammable gases*

ISO 9094-1, *Small craft — Fire protection — Part 1: Craft with a hull length of up to and including 15 m*

ISO 10133, *Small craft — Electrical systems — Extra-low-voltage d.c. installations*

ISO 10240, *Small craft — Owner's manual*

ISO 13297, *Small craft — Electrical systems — Alternating current installations*

## 3 Terms and definitions

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

### 3.1

#### liquefied petroleum gas

#### LPG

mixture of light hydrocarbons, gaseous under conditions of normal temperature and pressure, and maintained in the liquid state by increase of pressure or lowering of temperature

NOTE 1 The principal components are propane, propene, butanes or butenes.

NOTE 2 LPG can be obtained as commercial butane, commercial propane or a mixture of the two.