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Second edition
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Gas cylinders — Inspection of the cylinder installation, and requalification of high pressure cylinders for the on-board storage of natural gas as a fuel for automotive vehicles

Bouteilles à gaz — Inspection de l'installation des bouteilles, et requalification des bouteilles haute pression pour le stockage du gaz naturel, utilisé comme carburant, à bord des véhicules automobiles



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ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

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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 19078 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 4, *Operational requirements for gas cylinders*.

This second edition cancels and replaces the first edition (ISO 19078:2006), with the following main technical revisions:

- a) The scope clarifies the rework of some types of rejected cylinders;
- b) The periodicity of inspection has been removed from this International Standard. The user is referred to the requirements of ISO 11439 for this information;
- c) Damage levels and criteria are more clearly defined and better align with ISO 11439;
- d) [Clause 7.11](#) was renamed to better clarify its intent;
- e) [Table 2](#) includes acceptance and rejection conditions for gas tight housing;
- f) Reference to ISO 25760 for valve removal has been added; and
- g) Annex A, Inspector qualifications (informative), and Annex F, Composite matrix (informative), were removed.

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Introduction

This International Standard sets out requirements regarding the periodic visual examination and inspection of natural gas fuel cylinders installed in vehicles and the condition of their installation. These cylinders are designed to store natural gas at high pressures.

Where there is any conflict between this International Standard and any applicable regulation, the regulation always takes precedence.