

Internal combustion engines — Piston rings —

Part 2: Rectangular rings made of steel

ICS 43.060.10

National foreword

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- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
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Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 21 and a back cover.

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Internal combustion engines — Piston rings —

Part 2: Rectangular rings made of steel

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Partie 2: Segments rectangulaires en acier*



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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.

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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.

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ISO 6622-2 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

This first edition of ISO 6622-2 cancels and replaces ISO/TR 6622-2:1988, which has been technically revised.

ISO 6622 consists of the following parts, under the general title *Internal combustion engines — Piston rings*:

- *Part 1: Rectangular rings made of cast iron*
- *Part 2: Rectangular rings made of steel*

Introduction

ISO 6622 is one of a number of series of International Standards dealing with piston rings for reciprocating internal combustion engines. Others are ISO 6621^{[2], [3], [4], [5]}, ISO 6623^[6], ISO 6624^{[7], [8], [9], [10]}, ISO 6625, ISO 6626^{[12], [13]} and ISO 6627^[14] (see Bibliography for details).

The common features and dimensional tables presented in this part of ISO 6622 constitute a broad range of variables and, in selecting a particular ring type, the designer must bear in mind the conditions under which it will be required to operate.

It is also essential that the designer refer to the specifications and requirements of ISO 6621-3^[4] and ISO 6621-4 before completing his selection.

Internal combustion engines — Piston rings —

Part 2: Rectangular rings made of steel

1 Scope

This part of ISO 6622 specifies the essential dimensional features of rectangular rings made of steel, types R, B, BA and M, having diameters of from 30 mm up to and including 160 mm, used in reciprocating internal combustion piston engines. It is also applicable to piston rings of compressors working under similar conditions.

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 6621-4, *Internal combustion engines — Piston rings — Part 4: General specifications*

3 Overview

The rectangular ring types are specified in Tables 1 to 3 and Figures 1 to 4. Their common features and the dimensions of those features are specified in Tables 4 to 9 and Figures 5 to 22. Tables 10 and 11 give the force factors for the different ring types, while Table 12 gives the dimensions and forces of the rectangular rings.

4 Ring types and designation examples

4.1 Type R — Straight faced rectangular ring

4.1.1 General features

See Table 12 for dimensions and forces.