STANDARD **6626**

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Internal combustion engines — Piston rings — Coil-spring-loaded oil control rings

Moteurs à combustion interne — Segments de piston — Segments racleurs régulateurs d'huile mis en charge par ressort hélicoïdal

Reference number
ISO 6626 : 1989 (E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6626 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

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0 Introduction

ISO 6626 is one of a series of International Standards dealing with piston rings for reciprocating internal combustion engines:

ISO 6621, *Internal combustion engines — Piston rings —*

Part 1: Vocabulary.

Part 2: Measuring principles.

Part 3: Material specifications.

Part 4: General specifications.

Part 5: Quality requirements.

ISO 6622, *Internal combustion engines — Piston rings —*

Part 1: Rectangular rings.

Part 2: Rectangular rings with narrow ring width. [1)]

ISO 6623, *Internal combustion engines — Piston rings — Scraper rings.*

ISO 6624, *Internal combustion engines — Piston rings —*

Part 1: Keystone rings.

Part 2: Half keystone rings. [1)]

ISO 6625, *Internal combustion engines — Piston rings — Oil control rings.*

ISO 6626, *Internal combustion engines — Piston rings — Coil-spring-loaded oil control rings.*

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

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

1 Scope and field of application

This International Standard specifies the essential dimensions of piston ring types DSF-C, DSF-CNP, SSF, GSF, DSF, DSF-NG and SSF-L coil-spring-loaded oil control rings.

For the cast iron part the recommended material is class 10 according to ISO 6621-3. For special applications material classes 20 to 50 may be used.

Variation in face design and spring groove from these may be used, as recommended by individual manufacturers, in plain or chromed versions.

The tangential forces of coil-spring-loaded oil control rings can be varied over a wide range. Explanations and recommendations are given in clause 6.

The normal range for axial width of coil-spring-loaded oil control rings (3 to 8 mm inclusive) is divided into 0,5 or 1,0 mm steps. In tables 15 to 20 dimensions are given for coil-spring-loaded oil control rings with an axial width of 4,75 mm (i.e. 3/16 in) for existing applications in inch units.

This International Standard applies to coil-spring-loaded oil control rings up to 200 mm inclusive for reciprocating internal combustion engines. It may also be used for piston rings of compressors working under analogous conditions.

2 References

ISO 1101, *Technical drawings — Tolerancing of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings.*

ISO 6621, *Internal combustion engines — Piston rings —*

Part 3: Material specifications.

Part 4: General specifications.

Part 5: Quality requirements.

1) Part will be published as a Technical Report (ISO/TR 6622-2 and ISO/TR 6624-2).