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आंतरिक दहन इंजन — पिस्टन रिंग — तेल नियंत्रण रिंग

Draft Indian Standard

Internal Combustion Engines — Piston Rings — Oil Control Rings

ICS: 43.060.10

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Automotive Prime movers, Transmission Systems and Internal Combustion Engine Sectional Committee, TED 02

NATIONAL FOREWORD

This draft Indian Standard which is identical with ISO 6625: 1986 ‘Internal Combustion Engines — Piston Rings — Oil Control Rings’ issued by International Organization for Standardization (ISO), will be adopted by the Bureau of Indian Standards on the recommendations of Automotive Prime movers, Transmission Systems and Internal Combustion Engine Sectional Committee and approval of the Transport Engineering Division Council.

This draft standard when published, will supersede, was originally published as IS 8422 (Part 6): 1977 ‘Specification for piston rings for IC engines: Part 6 slotted oil control rings from 50 up to 200 mm nominal diameter S - Rings’, IS 8422 (Part 7): 1977 ‘Specification for piston rings for IC engines: Part 7 double bevelled slotted oil control rings from 50 up to 200 mm nominal diameter G – Rings’ and IS 8422 (Part 8): 1977 ‘Specification for piston rings for IC engines: Part 8 narrow land slotted oil control rings from 50 up to 200 mm nominal diameter D – Rings’, as this draft standard covers specifications for S-Rings, G-Rings, D-Rings along with DV-Type oil control piston rings.

The text of ISO standard is proposed for publication as an Indian Standard without deviations. Certain terminologies and conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard / Document No. of Draft Under Development</i>	<i>Degree of Equivalence</i>
ISO 1101 Technical Drawings — Geometrical Tolerancing of form, orientation, Location and Run-out Generalities, Definitions, Symbols,	IS 8000 (Part 1) : 2019 ISO 1101 : 2017 Geometrical Product Specifications (GPS) -- Geometrical Tolerancing: Part 1 Tolerances of form, Orientation, Location and Run-out (Second	Identical under dual numbering

Indications on Drawings.	Revision)	
ISO 6621-3 Internal Combustion Engines — Piston Rings — Part 3: Material Specifications.	IS 5791 : 2006 ISO 6621-3 Internal Combustion Engines - Piston Rings - Material Specifications (Third Revision)	Identical under dual numbering
ISO 6621-4 Internal Combustion Engines — Piston Rings — Part 4: General Specifications	TED/02/24507* Internal Combustion Engines Piston Rings Part 4: General Specifications	Identical under dual numbering

**Draft Under Development*

Attention is drawn to the possibility that some of the elements of this standard may be the subject of patent rights. The Bureau of Indian Standards shall not be held responsible for identifying any or all such patent rights.

INTRODUCTION

ISO 6625 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.1)

Part 5: Quality requirements.1)

ISO 6622, Internal combustion engines — Piston rings —

Part 1: Rectangular rings.

Part 2: Rectangular rings with narrow ring width.2)

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.3)

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

ISO 6626, Internal combustion engines — Coil spring loaded oil control rings.1)

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.

SCOPE AND FIELD OF APPLICATION

This International Standard specifies the essential dimensional features of S-, G-, D- and DV-oil control piston ring types.

The normal range for the axial width of oil control rings (2,5 to 8 mm inclusive) is divided into 0,5 or 1,0 mm increments. In table 7, dimensions in inch units are given for oil control rings with axial width 4,75 mm (equal to 3/16 in) for existing applications.

The requirements of this International Standard apply to oil control rings for reciprocating internal combustion piston engines, up to and including 200 mm diameter. It may also be used for piston rings of compressors working under similar conditions.

**FOR COMPLETE TEXT OF THE DOCUMENT KINDLY REFER ISO 6625: 1986
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