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For comments only

भारतीय मानक मसौदा

आंतरिक दहन इंजन — पिस्टन रिंग — भाग 1 : ढलवां लोहे से बने प्रस्तर के रिंग

Draft Indian Standard

Internal Combustion Engines — Piston Rings — Part 1: Keystone Rings Made of Cast Iron

ICS: 43.060.10

Last date for receipt of commentsor used as standard is 18/03/2024

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

NATIONAL FOREWORD

This draft Indian Standard which is identical with ISO 6624-1: 2017 'Internal Combustion Engines — Piston Rings — Part 1: Keystone Rings Made of Cast Iron' 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.

Once published, this draft standard along with Doc. TED 02 (24550) {adoption of ISO 6624-3: 2017 (*Internal Combustion Engines — Piston Rings — Part 3: Keystone Rings Made of Steel*)}, will supersede IS 8422 (Part 3): 1977 '*Specification for piston rings for IC engines: Part 1 plain compression rings from 30 up to 200 mm nominal diameter R - 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 Standard for which Indian Standard also exists. The corresponding Indian Standard, which is to be substituted in its respective place, is listed below along with its degree of equivalence for the edition indicated:

International Standard	*Corresponding Indian Standard / Document No. of Draft Under Development*	*Degree of Equivalence*
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.

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off it shall be done in accordance with IS 2: 2022 'Rules for rounding off numerical values (*Second revision*)'.

INTRODUCTION

ISO 6624 belongs to the series of International Standards dealing with piston rings for reciprocating internal combustion engines. Others are ISO 6621, ISO 6622, ISO 6623, ISO 6625, ISO 6626 and ISO 6627 (see Bibliography for details).

The common features and dimensional tables presented in this document 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 a selection.

SCOPE

This document specifies the essential dimensional features of keystone rings made of cast iron, types T, TB, TBA, TM, K, KB, KBA and KM, having diameters from 70 mm up to and including 200 mm, used in reciprocating internal combustion piston engines.

FOR COMPLETE TEXT OF THE DOCUMENT KINDLY REFER ISO 6624-1: 2017 or CONTACT:

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