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(JFPA/JSA)

O-rings—Quality acceptance criteria



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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Fluid Power Association (JFPA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS B 2408 : 1993** is replaced with this Standard.

This revision has been made based on **ISO/FDIS 3601-3 : 2002** *Fluid power systems—O-rings—Part 3: Quality acceptance criteria* for the purpose of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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O-ring—Quality acceptance criteria

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO/FDIS 3601-3** *Fluid power systems—O-rings—Part 3: Quality acceptance criteria* published in 2002 with some modifications of the technical contents.

The portions given sidelines or dotted underlines are the matters modified from the original International Standard. A list of modifications with the explanations is given in Annex (informative).

1 Scope This Standard defines and classifies surface imperfections on O-rings and specifies maximum acceptable limits for these imperfections.

Remarks 1 This Standard only specifies the visual quality acceptance criteria of O-rings and is not intended to be used, by itself, to evaluate the conformity of O-rings.

2 The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21**.

ISO/FDIS 3601-3:2002 *Fluid power systems—O-rings—Part 3: Quality acceptance criteria* (MOD)

2 Normative reference The following standard contains provisions which, through reference in this text, constitute provisions of this Standard. If the indication of the year of publication is given to the referred standard, only the edition of the indicated year constitutes the provision of this Standard but the revision and amendment made thereafter do not apply. The normative reference without the indication of the year of coming into effect applies only to the most recent edition (including amendments).

JIS B 0142 *Glossary of terms for oil hydraulics and pneumatics*

NOTE: **ISO 5598**:1985 *Fluid power systems and components—Vocabulary* is equivalent to the said standard.

3 Terms and definitions For the purposes of this Standard, the terms and definitions given in **JIS B 0142** and the following apply.

3.1 backrind longitudinal imperfection in which the rubber adjacent to the flash line shrinks below the level of the moulding and has a U-like or W-like cross section with the flash frequently being ragged or torn (see figure 1)

3.2 combined flash combination of offset, flash and parting line projection

3.3 excessive trimming flattened and often roughened area around the inner and/or outer diameters of an O-ring, caused by the trimming process (see figures 2A and 2B)