



BSI Standards Publication

Fluid power systems and components — Cylinder-rod wiper-ring housings in reciprocating applications — Dimensions and tolerances

National foreword

This British Standard is the UK implementation of ISO 6195:2021. It supersedes BS ISO 6195:2013, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee MCE/11, Fluid seals and their housings.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Fluid power systems and components — Cylinder-rod wiper- ring housings in reciprocating applications — Dimensions and tolerances

*Transmissions hydrauliques et pneumatiques — Logements de joints
racleurs pour tiges de piston à mouvement linéaire de vérins —
Dimensions et tolérances*



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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Sub-committee SC 7, *Sealing devices*.

This fourth edition cancels and replaces the third edition (ISO 6195:2013), which has been technically revised.

The main changes compared to the previous edition are as follows:

- wiper housing sizes for 400 mm and 450 mm rod diameters have been added to [Tables 1, 2, 3, 4 and 5](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

In fluid power systems, power is transmitted and controlled through a fluid (liquid or gas) under pressure within an enclosed circuit. Wiper-rings are used to prevent ingress of contaminants and to thereby protect the seals and bearings within the equipment.

This document is one of a family of standards covering dimensions and tolerances of reciprocating seal housings.

This document is applicable to the following five housing designs:

- Type A: recessed housings with undercut or separate cover to retain elastomeric wipers.
- Type B: open recessed housings for wipers with integral rigid enforcement that are press-fit in the housing.
- Type C: recessed housings with undercut to retain elastomeric wipers (these are the preferred housings for double lip wipers without integral rigid enforcement).
- Type D: recessed housings with undercut to retain elastomer-energized, plastic-faced wipers.
- Type E: recessed housings with undercut or separate cover to retain elastomeric wipers (these are the preferred housings to Type A).

These housing designs are intended for use with the wiper-rings according to [Figure 1](#).

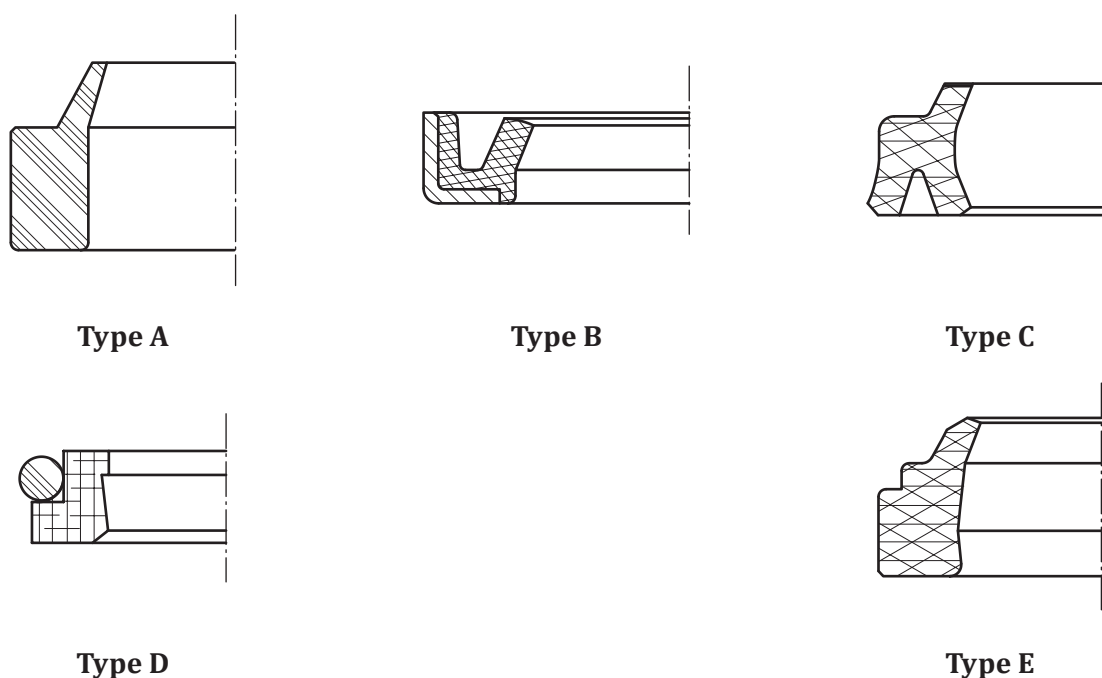


Figure 1 — Types of wiper-rings

This document does not otherwise specify the style, configurations, materials, or performance ratings for the wiper-ring.

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