
**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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6195 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 7, *Sealing devices*.

This third edition cancels and replaces the second edition (ISO 6195:2002), which has been technically revised. The most important change is the addition of an additional type of housing design: Type E housing is specified in [6.5](#).

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 thereby to protect the seals and bearings within the equipment.

This International Standard is one of a series of standards covering the dimensions and tolerances of housings.

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

1 Scope

This International Standard specifies dimensions and tolerances of housings for wiper rings used in reciprocating rod applications for fluid power cylinders. The range of rod diameters is from 4 mm to 360 mm.

This International Standard 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 for single lip wipers without integral rigid enforcement).

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

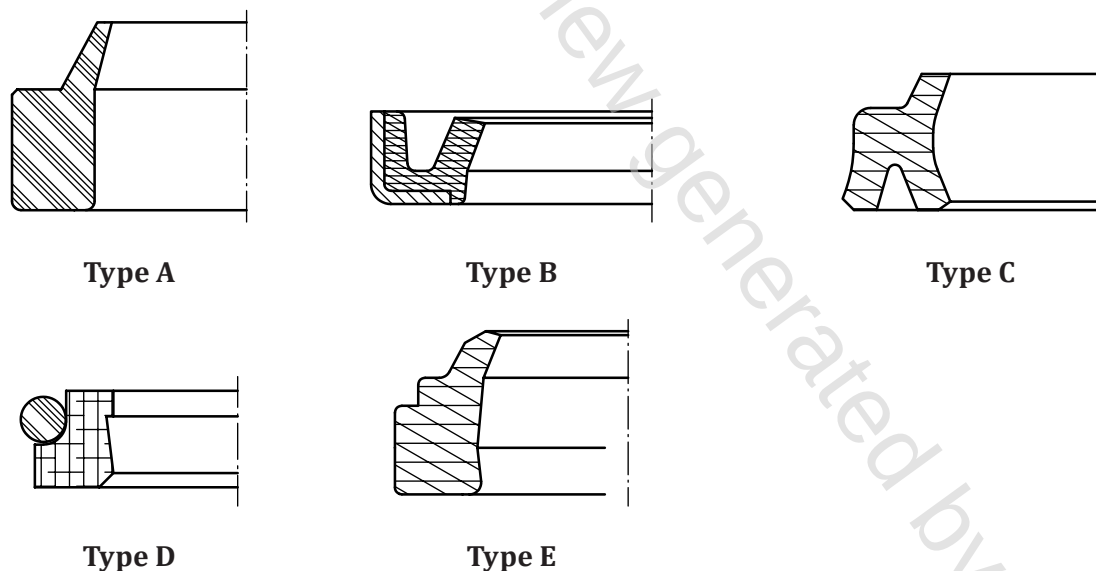


Figure 1 — Types of wiper rings

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