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**Hydraulic fluid power — Cylinders  
— Dimensions and tolerances of  
 housings for single-acting piston and  
 rod seals in reciprocating applications**

*Transmissions hydrauliques — Vérins — Dimensions et tolérances  
des logements de joints d'étanchéité pour pistons et tiges de piston à  
simple effet dans les applications à mouvement alternatif*

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ISO copyright office  
CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Fax: +41 22 749 09 47  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Symbols</b> .....	<b>2</b>
<b>5 Seal housings</b> .....	<b>2</b>
5.1 General.....	2
5.2 Axial length.....	3
5.3 Radial depth.....	3
<b>6 Dimensions and tolerances</b> .....	<b>3</b>
6.1 Piston seal housing dimensions.....	3
6.2 Rod seal housing dimensions.....	3
6.3 Radial seal space tolerances.....	3
6.4 Housing length.....	4
<b>7 Extrusion gap</b> .....	<b>4</b>
<b>8 Surface roughness</b> .....	<b>4</b>
8.1 General.....	4
8.2 Sliding and static sealing surfaces.....	4
<b>9 Lead-in chamfer</b> .....	<b>5</b>
<b>10 Identification statement (reference to this document)</b> .....	<b>6</b>
<b>Bibliography</b> .....	<b>16</b>

[ISO 5597:2018](https://standards.iteh.ai/catalog/standards/iso/8e4a343f-1920-4947-b878-41c7c67727bc/iso-5597-2018)

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## Foreword

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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](http://www.iso.org/directives)).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document 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 5597:2010) which has been technically revised to ensure consistency with ISO 3320. [ISO 5597:2018](http://www.iso.org/iso/5597-2018)

The main changes compared to the previous edition are: <https://standards.iteh.ai/catalog/standards/iso/8e4a343f-1920-4947-b878-41c7c67727bc/iso-5597-2018>

- Seal housing sizes for a 60 mm diameter cylinder bore added to [Table 3](#);
- 400 mm and 450 mm diameter rods added to [Table 5](#).
- [Table 1](#) has been modified to indicate that, for some seal housings, the axial lengths (seal groove lengths) are too short for the surface roughness to be measured with five sampling lengths.