



SLOVENSKI STANDARD
SIST ISO 4393:2016

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Nadomešča:
SIST ISO 4393:1995

Fluidna tehnika - Valji - Osnovna vrsta batnih gibov

Fluid power systems and components - Cylinders - Basic series of piston strokes

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Transmissions hydrauliques et pneumatiques - Vérins - Série de base de courses de piston

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[http://www.sist.si/log/standard/4393-4499-85a2-1b4f3086111c/sist-iso-4393-2016](#)

ICS:

23.100.20 Hidravlični valji Cylinders

SIST ISO 4393:2016 **en,fr**

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INTERNATIONAL
STANDARD

ISO
4393

Second edition
2015-09-01

**Fluid power systems and
components — Cylinders — Basic
series of piston strokes**

*Transmissions hydrauliques et pneumatiques — Vérins — Série de
base de courses de piston*

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ISO 4393:2015(E)

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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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 131, *Fluid power systems*, Subcommittee SC 3, *Cylinders*.

This second edition cancels and replaces the first edition (ISO 4393:1978), which has been technically revised.

Introduction

In fluid power systems, power is transmitted and controlled through a fluid (liquid or gas) under pressure within a circuit. One component of such systems is the fluid power cylinder. This is a device which converts fluid power into linear mechanical force and linear motion. It consists of a movable element, i.e. a piston and piston rod, operating within a cylindrical bore.

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Fluid power systems and components — Cylinders — Basic series of piston strokes

1 Scope

This International Standard specifies the preferred series of piston strokes for application to single-acting and double-acting fluid power cylinders. These strokes are mainly used for pneumatic cylinders but may also be used for hydraulic cylinders.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5598, *Fluid power systems and components — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5598 apply.

4 Dimensions

Refer to [Figure 1](#) for the identification of piston strokes.

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