



# SLOVENSKI STANDARD

## SIST ISO 16656:2005

01-november-2005

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**Fluidna tehnika – Hidravlika – Kratkohodni valji z enostransko batnico s premeri 32 mm do 100 mm in za 10 MPa (100 bar) – Vgradne mere**

Hydraulic fluid power -- Single rod, short-stroke cylinders with bores from 32 mm to 100 mm for use at 10 MPa (100 bar) -- Mounting dimensions

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Transmissions hydrauliques -- Vérins course courte à simple tige, d'alésages 32 mm à 100 mm, pour utilisation à 10 MPa (100 bar) -- Dimensions d'interchangeabilité

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**Ta slovenski standard je istoveten z: ISO 16656:2004**

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**ICS:**

23.100.20      Pilačala } cilindri      Cylinders

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# INTERNATIONAL STANDARD

**ISO  
16656**

First edition  
2004-06-15

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## Hydraulic fluid power — Single rod, short-stroke cylinders with bores from 32 mm to 100 mm for use at 10 MPa (100 bar) — Mounting dimensions

*Transmissions hydrauliques — Vérins course courte à simple tige,  
d'alésages 32 mm à 100 mm, pour utilisation à 10 MPa (100 bar) —  
Dimensions d'interchangeabilité*

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Reference number  
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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 16656 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 3, *Cylinders*.

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## Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit.

One component of such systems is the fluid power cylinder. This is a device that converts power into linear mechanical force and motion. It consists of a movable element, i. e. a piston and piston rod, operating within a cylindrical bore.

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## ISO 16656:2004(E)

### 3 Terms and definitions

For the purposes of this International Standard, the terms and definitions given in ISO 5598 and the following apply.

#### 3.1

##### mounting

method by which a component, piping or system is fastened

NOTE Definition which will be included in the next revision of ISO 5598.

### 4 Bore sizes

This International Standard provides for the following bore sizes, in millimetres, in accordance with ISO 3320:

32 – 40 – 50 – 63 – 80 – 100

### 5 Nominal strokes

Nominal strokes in accordance with ISO 4393 shall be selected from those given in Table 1.

**Table 1 — Nominal strokes and tolerance**  
Dimensions in millimetres

Nominal strokes	Tolerance
5, 10, 16, 20, 25, 32, 40, 50	+1 0

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### 6 Piston rod characteristics

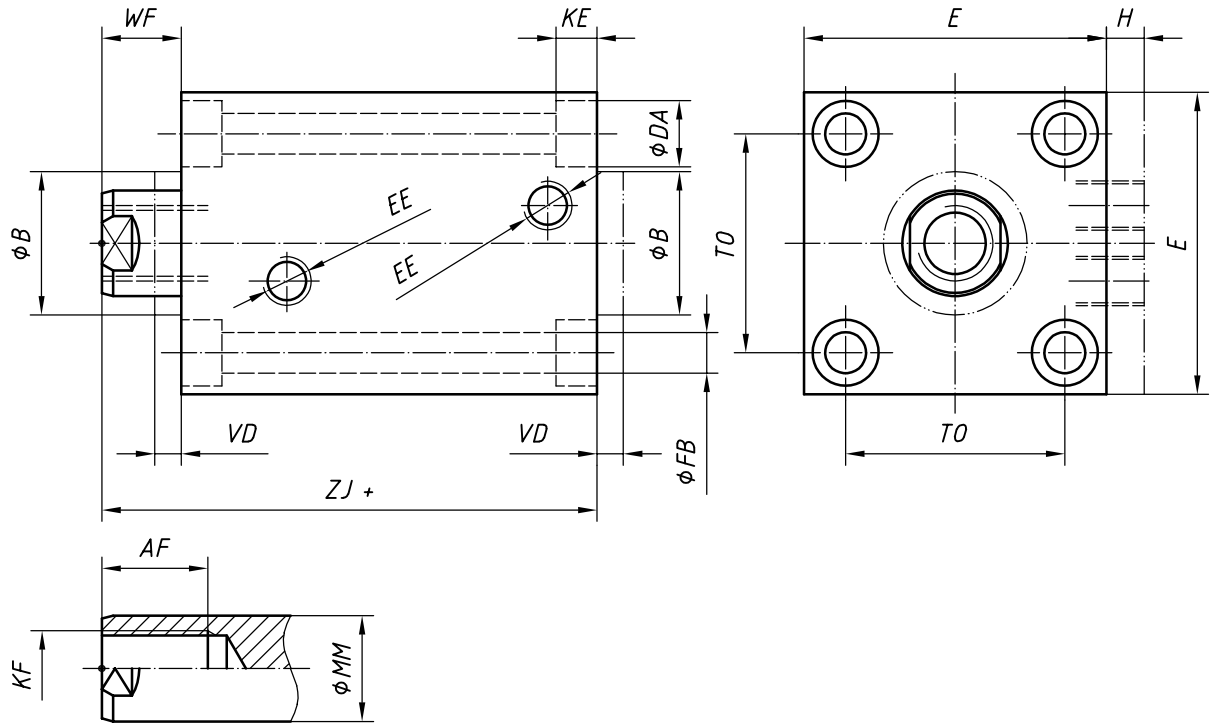
This International Standard covers piston rods that have a shouldered male thread end and female thread end (see Figures 1 and 2).

### 7 Dimensions

Mounting dimensions for cylinders manufactured in accordance with this International Standard shall be selected from Figures 1 and 2 and Table 2.

Identification codes for mounting dimensions and mounting types are in accordance with ISO 6099.



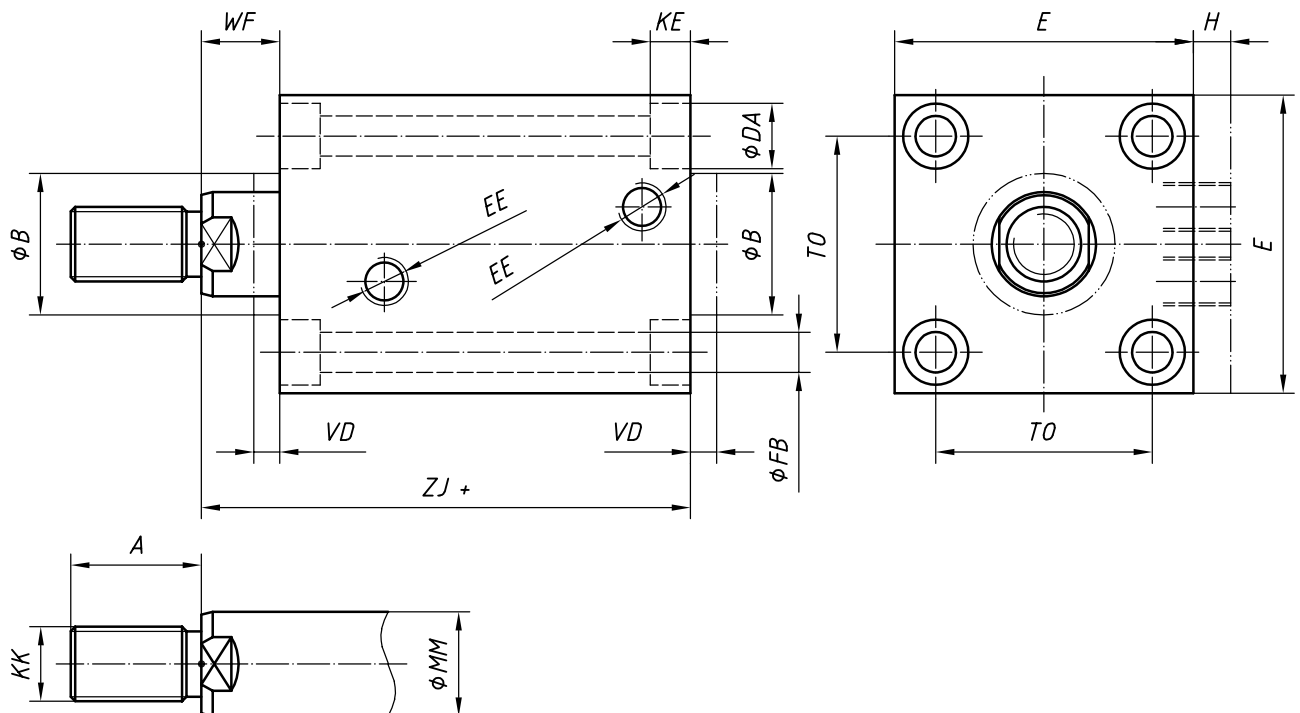


NOTE Pilot extension is optional. The dimensions  $B$  and  $VD$  should be used if pilot extensions are needed.

Figure 1 — Body, through bolt hole mounting (MB1) — Female threaded rod

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NOTE Pilot extension is optional. The dimensions  $B$  and  $VD$  should be used if pilot extensions are needed.

Figure 2 — Body, through bolt hole mounting (MB1) — Male threaded rod