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Pneumatic fluid power — Cylinders with detachable mountings, 1 000 kPa (10 bar) series, bores from 32 mm to 320 mm — Basic, mounting and accessories dimensions

Transmissions pneumatiques — Vérins avec fixations détachables, série 1 000 kPa, alésages de 32 mm à 320 mm — Dimensions de base, des fixations et des accessoires



Reference number ISO 15552:2004(E)

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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 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

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent

ISO 15552 was prepared by Technica Committee ISO/TC 131, Fluid power systems, Subcommittee SC 3,

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Introduction

In pneumatic fluid power systems, power is transmitted and controlled through a gas under pressure within a circuit.

One component of such systems is the pneumatic cylinder. This is a device which converts power into linear To enable them to be fastened to user mechanisms, pneumatic cylinders comprise in addition some devices called "mountings". mechanical force and motion. It consists of a movable element, i.e. a piston, and a piston rod, operating within a cylindrical bore.

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Pneumatic fluid power — Cylinders with detachable mountings, 1 000 kPa (10 bar) series, bores from 32 mm to 320 mm — Basic, mounting and accessories dimensions

Scope

1

This International Standard established a metric series of basic, mounting and accessories dimensions as required for interchangeachity of single- or double-rod pneumatic cylinders, with or without provision for magnetic sensors for a maximum rated pressure of 1 000 kPa (10 bar).

It is applicable to pneumatic cylinders with detachable mountings.

2 Normative references

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

ISO 273, Fasteners — Clearance holes for bolts and screws

- ISO 3320, Fluid power systems and components Synder bores and piston rod diameters Metric series
- ISO 4393, Fluid power systems and components Cylingers Basic series of piston strokes
- ISO 4395, Fluid power systems and components Cylinder Piston rod thread dimensions and types

ISO 5598, Fluid power systems and components — Vocabulary

ISO 6099, Fluid power systems and components — Cylinders — Identification code for mounting dimensions and mounting types

ISO 16030, Pneumatic fluid power — Connections — Ports and stud ends

3 Terms and definitions

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

4 Dimensions

4.1 Basic dimensions

The basic dimensions are given in Tables 1 and 2 and shown in Figures 1 and 2.