International Standard

ISO 13726

Hydraulic fluid power — Single rod cylinders, 16 MPa (160 bar) compact series with bores from 250 mm to 500 mm — Accessory mounting dimensions

Transmissions hydrauliques — Vérins à simple tige, série compacte 16 MPa (160 bar) d'alésages 250 mm à 500 mm — Dimensions d'interchangeabilité des accessoires

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Foreword

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This document was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 3, *Cylinders*.

This third edition cancels and replaces the second edition (ISO 13726:2008), which has been technically revised.

The main changes are as follows:

— Accessory with code of AA4-R has been added in the Scope;

— List of standards has been updated in Clause 2;

— 4.2 has been replaced by a Note;

— Clause 5 has been updated to delete the requirement on yield strength of the material;

— A new Subclause 6.1 has been added;

— Designation format in Clause 7 have been changed to align with ISO 8132 and ISO 8133;

— Figure 1 to Figure 4 have been modified;

— Dimension *NT* has been added in Table 1 and Table 2;

— Dimension *CV* has been changed to a reference dimension in Table 1 and Table 2;

— Unit of the nominal force has been changed to kN in Table 1 to Table 5;

— Figure 6 have been added for accessory type AA4-R.

Any feedback or questions on this document should be directed to the user’s national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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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 device converts hydraulic 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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Hydraulic fluid power — Single rod cylinders, 16 MPa (160 bar) compact series with bores from 250 mm to 500 mm — Accessory mounting dimensions

1 Scope

This document specifies the mounting dimensions of the accessories regarding interchangeability for 16 MPa (160 bar) compact cylinders conforming to ISO 6020-3. The accessories are applied to mounting with cylinders manufactured in accordance with ISO 6020-3.

This document covers the following accessories of which the identification code is specified in ISO 6099:

— AP2 – rod clevis, internal thread (see Figure 1 and Table 1);

— AP4 – rod eye, plain, internal thread (see Figure 2 and Table 2);

— AA4 - L – pivot pin (locking plate) (see Figure 3 and Table 3);

— AL6 – locking plate for pivot pin (see Figure 4 and Table 4);

— AA4 - S and AA4 - R – pivot pin plain (see Figure 5-6 and Table 5 respectively).

The design of these accessories is based on the maximum forces derived from pressures and bore diameters of the cylinders specified in ISO 2944 and ISO 3320.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 5598, *Fluid power systems and components — Vocabulary*

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

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Accessory mounting dimensions

The mounting dimensions for accessories are shown in Figure 1 to 6 and given in Table 1 to 5 respectively.

NOTE For the mounting dimensions for rod eyes with spherical bearing, see ISO 24652.

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