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GB/T 2351-2021 / ISO 4397:2011

Replacing GB/T 2351-2005

**Fluid power systems and components - Outside
diameters of tubes and inside diameters of hoses**

流体传动系统及元件 硬管外径和软管内径

(ISO 4397:2011, Fluid power connectors and associated components -
Nominal outside diameters of tubes and nominal hose sizes, IDT)

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Foreword

This document is drafted in accordance with GB/T 1.1-2020 "Directives for standardization - Part 1: Rules for the structure and drafting of standardizing documents".

This document replaces GB/T 2351-2005 "Fluid power systems and components - Connectors and associated components - Outside diameters of tubes and inside diameters of hoses". Compared with GB/T 2351-2005, in addition to editorial changes, the main technical changes are as follows:

- a) For outside diameters of tubes, add 3, 60, 75, 90, 100, 115, and 140; delete 14, 34, 40 (see Table 1; Table 1 of the 2005 edition);
- b) For inside diameters of hoses, add 4, 63, 76, 90, 100, 125, and 150; delete 20, 40, 50 (see Table 2; Table 1 of the 2005 edition);
- c) Delete the description of the scope of application of a and b in Table 1 (see Table 1 of the 2005 edition).

This document is identical to ISO 4397:2011 "Fluid power connectors and associated components - Nominal outside diameters of tubes and nominal hose sizes".

This document has made the following minimal editorial change:

- In order to coordinate with existing standards, change the standard name to "Fluid power systems and components - Outside diameters of tubes and inside diameters of hoses".

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The issuing authority of this document shall not be held responsible for identifying any or all such patent rights.

This document was proposed by China Machinery Industry Federation.

This document shall be under the jurisdiction of National Technical Committee 3 on Hydraulics & Pneumatics of Standardization Administration of China (SAC/TC 3).

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Fluid power systems and components - Outside diameters of tubes and inside diameters of hoses

1 Scope

This document specifies information on the nominal outside diameters of rigid or semi-rigid tubing and nominal hose inside diameters to be used with fluid power systems and components:

- a) nominal outside diameters for tubes, irrespective of material composition;
- b) a list of nominal sizes for hoses made of rubber or plastic.

Note: Actual outside diameters and tolerances for tubes can be found in ISO 3304 and ISO 3305; actual dimensions and tolerances for hose inside diameters can be found in ISO 1307.

2 Normative references

The contents of the following documents, through normative references in this text, constitute indispensable provisions of this document. Among them, for dated references, only the edition corresponding to that date applies to this document. For undated references, the latest edition (including all amendments) applies to this document.

ISO 5598 Fluid power systems and components - Vocabulary

Note: GB/T 17446-2012 Fluid power systems and components - Vocabulary (ISO 5598:2008, IDT)

3 Terms and definitions

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

4 Nominal outside diameters of tubes and nominal hose inside diameters

Nominal outside diameters of tubes shall be selected from the diameters given in Table 1. Nominal hose inside diameters shall be selected from the sizes

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