## INTERNATIONAL STANDARD

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

Transmissions hydrauliques et pneumatiques - Raccords et éléments associés - Diamètres extérieurs des tubes et diamètres intérieurs des tuvaux flexibles

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ISO 4397:1978
https//standards.iteh.ai/catalog/standards/sist/a004280e-96d0-4f24-a803-
891888479ec3/iso-4397-1978

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard $1504397^{\circ}$ was developed by Technical Committee VIEW ISO/TC 131, Fluid power systems and components, and was circulated to the member bodies in November 1976.
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It has been approved by the member bodies of the following countries:
ISO 4397:1078


The member bodies of the following countries expressed disapproval of the document on technical grounds:

Switzerland
United Kingdom

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

## 0 INTRODUCTION

In fluid power systems, power is transmitted and controlled through a fluid (liquid or gas) under pressure within an enclosed circuit. Components are interconnected through their ports and associated fluid conductor fitting ends. Tubes are rigid conductors; hoses are flexible conductors.

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard establishes the following select series for use within hydraulic and pneumatic fluid power connectors and associated components


## 2 REFERENCE

ISO 5598, Fluid power - Vocabulary. ${ }^{1)}$

## 4 DIMENSIONS

Select outside diameters of tubes and inside diameters of hoses from the dimensions in tables 1 and 2.

TABLE 1 - Series of outside diameters of tubes

Dimensions in millimetres

| 4 |
| :---: |
| 5 |
|  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

- For some flanged connection applications.

TABLE 2 - Series of inside diameters of hoses

Dimensions in millimetres

| 3,2 |
| :---: |
| 5 |
| 6,3 |
| 8 |
| 10 |
| 12,5 |
| 16 |
| $19^{*}$ |
| 20 |
| 25 |
| 31,5 |
| $38^{*}$ |
| 40 |
| 50 |
| $51^{*}$ |

- For hydraulic purposes only.


## 3 DEFINITIONS

3.1 tube : A pipeline of metal or plastic, used for connecting fixed assemblies, the size of which is defined by its nominal outside diameter and is available in various wall thicknesses.
3.2 hose : A flexible pipeline, usually of wire-reinforced rubber or plastic, the size of which is defined by its nominal inside diameter and is available in various wall thicknesses.
3.3 For definitions of other terms used, see ISO 5598.

[^0][^1]
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[^0]:    5 IDENTIFICATION STATEMENT (Reference to this International Standard)

    Use the following statement in test reports, catalogues and sales literature when electing to comply with this International Standard :
    "Outside diameters of tubes and inside diameters of hoses selected in accordance with ISO 4397, Fluid power systems and components - Connectors and associated components Outside diameters of tubes and inside diameters of hoses."

[^1]:    1) In preparation.
