



SLOVENSKI STANDARD
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Pneumatic fluid power -- Standard reference atmosphere

Transmissions pneumatiques -- Atmosphère normalisée de référence

Ta slovenski standard je istoveten z: **ISO 8778:2003**

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23.100.01 Pomoč pri delu s tekočinami v sistemih za prenos energije Fluid power systems in general

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INTERNATIONAL
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Second edition
2003-03-15

**Pneumatic fluid power — Standard
reference atmosphere**

Transmissions pneumatiques — Atmosphère normalisée de référence

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ISO 8778:2003(E)

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 8778 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 5, *Control products and components*.

This second edition cancels and replaces the first edition (ISO 8778:1990), which has been technically revised.

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Introduction

In pneumatic fluid power systems, power is transmitted and controlled through a gas, most commonly compressed air, under pressure within a circuit. When presenting characteristics of pneumatic components, equipment or systems that use compressed air, it is necessary to have a standard reference atmosphere to permit comparison of data obtained under various pressure conditions.

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Pneumatic fluid power — Standard reference atmosphere

1 Scope

This International Standard specifies a standard atmospheric reference value to be used in pneumatic fluid power technology for stating the performance data of components and systems.

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 5598, *Fluid power systems and components — Vocabulary*

3 Terms and definitions

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

3.1

atmosphere

ambient conditions defined by one or more of the following parameters: temperature, relative humidity, pressure

3.2

reference atmosphere

agreed atmosphere to which conditions determined in other atmospheres may be related by using suitable conversion factors

NOTE 1 The term “other atmospheres” can mean pressurized or vacuum conditions.

NOTE 2 See Annex A for a discussion of alternative reference atmospheres.

3.3

standard reference atmosphere

atmosphere whose pressure has been approximated to be nearly that at sea level, whose temperature is typically considered to be room temperature and whose relative humidity is arbitrarily established

4 Standard reference atmosphere

4.1 The standard reference atmosphere shall be as defined in Table 1.