



SLOVENSKI STANDARD

SIST ISO 5599-1:2002

01-julij-2002

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YY_f] b]`df]_`f _cj

Pneumatic fluid power -- Five-port directional control valves -- Part 1: Mounting interface
surfaces without electrical connector

iTeh STANDARD PREVIEW

Transmissions pneumatiques -- (Distributeurs à cinq orifices principaux -- Partie 1: Plans
de pose sans connecteur électrique

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Ta slovenski standard je istoveten z:

ISO 5599-1:2001

ICS:

23.100.50

Krmilni sestavni deli

Control components

SIST ISO 5599-1:2002

en

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INTERNATIONAL STANDARD

ISO
5599-1

Third edition
2001-08-15

Pneumatic fluid power — Five-port directional control valves —

Part 1: Mounting interface surfaces without electrical connector

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*Transmissions pneumatiques — Distributeurs à cinq orifices principaux —
Partie 1: Plans de pose sans connecteur électrique*

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Reference number
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ISO 5599-1:2001(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 3.

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 part of ISO 5599 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 5599-1 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 5, *Control products and components*.

This third edition cancels and replaces the second edition (ISO 5599-1:1989), which has been technically revised.

ISO 5599 consists of the following parts, under the general title *Pneumatic fluid power — Five-port directional control valves*:

- Part 1: Mounting interface surfaces without electrical connector
- Part 2: Mounting interface surfaces with optional electrical connector
- Part 3: Code system for communication of valve functions

Introduction

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

The various devices for gas distribution and control can be either mounted directly onto the piping, or mounted on interface surfaces to allow quicker dismantling and to promote equipment interchangeability.

Pneumatic directional control valves of the five-port, four-way type, as used on mounting interface surfaces complying with the requirements of this part of ISO 5599, control the flow of compressed gas.

Standardization of port and orifice identification, the result of control-mechanism actuation and a system of dimensional tolerances are provided to enhance mounting interchangeability of pneumatic control valves used on the mounting surfaces complying with the requirements of this part of ISO 5599.

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Pneumatic fluid power — Five-port directional control valves —

Part 1:

Mounting interface surfaces without electrical connector

1 Scope

This part of ISO 5599 specifies the requirements for a mounting interface surface without electrical connector for five-port pneumatic directional control valves, for use at a maximum rated pressure of 1,6 MPa [16 bar¹⁾]. It gives

- dimensions and tolerances of the interface features,
- port identification, and
- identification of the result of control-mechanism actuation.

It is not applicable to the functional characteristics of interfaces.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 5599. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 5599 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 1101:—²⁾, *Geometrical Product Specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*.

ISO 1302:—³⁾, *Geometrical Product Specifications (GPS) — Indication of surface texture in technical product documentation*.

ISO 4287, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters*.

ISO 4288, *Geometrical Product Specifications (GPS) — Surface texture: Profile method — Rules and procedures for the assessment of surface texture*.

ISO 5598, *Fluid power systems and components — Vocabulary*.

ISO 11727, *Pneumatic fluid power — Identification of ports and control mechanisms of control valves and other components*.

1) 1 bar = 0,1 MPa = 10⁵ Pa; 1 MPa = 1 N/mm²

2) To be published. (Revision of ISO 1101:1983)

3) To be published. (Revision of ISO 1302:1992)