

Pneumatic fluid power— Five-port directional control valves —

Part 2: Mounting interface surfaces with optional electrical connector

ICS 23.100.50

National foreword

This British Standard was published by BSI. It is the UK implementation of ISO 5599-2:2001, incorporating corrigendum February 2007.

The start and finish of text introduced or altered by corrigendum is indicated in the text by tags AC AC. Text altered by ISO corrigendum February 2007 is indicated in the text by AC1 AC1.

The UK participation in its preparation was entrusted to Technical Committee MCE/18, Fluid power systems and components.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard, having been prepared under the direction of the Engineering Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 02 November 2001

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ISBN 0 580 38025 4

Amendments issued since publication

Amd. No.	Date	Comments
15455	23 November 2004	Implementation of subclause 6.3.4
16974 Corrigendum No. 1	28 February 2007	See national foreword

**Pneumatic fluid power — Five-port
directional control valves —**

Part 2:
**Mounting interface surfaces with optional
electrical connector**

Transmissions pneumatiques — Distributeurs à cinq orifices principaux —

Partie 2: Plans de pose avec connecteur électrique facultatif



Reference number
ISO 5599-2:2001(E)

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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 5599-2 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 5599-2:1990), 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*

Foreword to amendment 1

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Amendment 1 to ISO 5599-2:2001 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 5, *Control products and components*.

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.

When the valve is electrically operated, it may be desirable to use an electrical connector at the interface of the valve body and base. Users of pneumatic valves benefit when this electrical connector is standardized, allowing easy electrical connection interchangeability between valves produced by different manufacturers.

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.

