

ICS 23.100.50
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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 7940.2-2008

Replacing GB/T 7940.2-2001

**Pneumatic fluid power -- Five-port directional control valves --
Part 2: Mounting interface surfaces with optional electrical
connector**

气动 五气口方向控制阀 第2部分：带可选电气接头的安装面

(English Translation)

Issued on: June 25, 2008

Implemented on: January 1, 2009

Issued by: Standardization Administration of China

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Foreword

GB/T 7940 under the "Air Five - port directional control valves," the general title, includes the following components.

--- Part 1. Mounting interface surfaces without electrical connector;

--- Part 2. mounting surface with optional electrical connector.

This section GB/T Section 27940, and is identical with ISO 5599-2:2001/Amd. 1.2004, Cor. 1.2007 "gas Voltage drives - Five - port directional control valves - Part 2. base with optional electrical connector mounting surface "(in English) on the pair GB/T 7940.2-2001 "Air Five - port directional control valves - Part 2. mounting surface with optional electrical connector" of revisions.

This part of ISO 5599-2:2001 has the following important differences.

--- "2 Normative references" and "references" to replace the corresponding national standards with international standards.

This portion of the GB/T 7940.2-2001 main differences.

--- On the "2" in the reference document was revised and updated.

--- Add "5.5 port for gas identification, additional options according to ISO 11727 to develop."

--- Add "indicator 6.3.4 can be used and/or anti-surge circuit, but should not be polarization sensitive." this part is proposed by China Machinery Industry Federation.

This part of the National Standardization Technical Committee of hydraulic and pneumatic (SAC/TC3) centralized.

This section is drafted. Pneumatic Co., Ltd. Wuxi Institute of Technology, Beijing Institute of Technology, Industrial Automation Equipment Co., Ltd. Ningbo Sono.

Introduction

In the pneumatic system, the power is through a closed loop control and compressed air to pass.

Various devices for distribution and control of gas can be installed directly in the pipeline or on the interface to quickly remove or replace.

Five - port directional accordance with the requirements of this section and installation at the interface of the control valve, its function is to control the flow of compressed gas.

When the valve is electrically driven, it is necessary to electrical connector mounted on the valve body. If you are using a standard electrical connector, a user-friendly valve, Different manufacturers of connectors can be interchanged.

To this end, the provisions of the air intake port identification and control, of body movements result of identification, dimensions and tolerances of the mounting surface, to mention High provisions in this section of the interchangeability of pneumatic directional control valves.

GB/T 7940.2-2008/ISO 5599-2:2001 Five - port directional control pneumatic valves Part 2. with optional electrical connector mounting surface

1 Scope

GB/T 7940 provisions of this part of the Five - port directional pneumatic with optional electrical connector of the control valve when the maximum operating pressure 1.6MPa, its mounting surface requirements are as follows.

- Mounting surface dimensions and tolerances;
- Identify air inlet;
- Control mechanism driving the results of identification;
- Optional electrical connector dimensions, tolerances and specifications.

2 Normative references

The following documents contain provisions which, through GB/T reference in this 7940 constitute provisions of this part. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

Terminology GB/T 3505-2000 Geometrical Product Specifications Surface texture Profile

method of surface structure, definitions and parameters (eqv ISO 4287:1997) GB/T 10610-1998 Geometrical product specifications, surface structure, rules and methods for the assessment of surface structure contour law (eqv ISO 4288:1996) GB/T 17446-1998 fluid power systems and components term (idt ISO 5598. 1985) ISO 11727 Pneumatic control valves and other components of the air intake, control identification mechanism

3 Terms and Definitions

GB/T 17446 and established the following terms and definitions apply to this section.

The device consists of two parts (plug and socket) composition, when they are connected, continuous connecting role of electrical and mechanical.

Current-carrying element is movable circuit.

Designed with openings or recesses can be mechanical clamping pin female contacts.

Designed to match the jacket and plug the male contacts.

Designed to locate, and to ensure that the contact element contacts and corresponding insulation function devices.

GB/T 7940.2-2008/ISO 5599-2:2001