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

GB/T 7940.1-2008

Replacing GB/T 7940.1-2001

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

气动 五气口方向控制阀 第1部分：不带电气接头的安装面

(English Translation)

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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 17940, and is identical with ISO 5599-1:2001/Cor. 1.2007 "pneumatic drive five gas Port directional control valves - Part 1. Mounting interface surfaces without electrical connector "Basic (in English) on to the GB/T 7940.1-2001" pneumatic five Port directional control valves - Part 1. Mounting interface surfaces without electrical connector "of revisions.

This part of ISO 5599-1:2001 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 7940.1-2001 main differences.

--- On the "2" in the reference file for changes and additions;

--- Add "3 Terms and Definitions";

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

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 7940.1-2008/ISO 5599-1:2001 Five - port directional control pneumatic valves Part 1. Mounting interface surfaces without electrical connector

1 Scope

GB/T 7940 provisions of this part of the Five - port directional pneumatic without electrical connector of the control valve, when the maximum operating pressure of 1.6MPa , Its mounting surface requirements are as follows.

- Mounting surface dimensions and tolerances;
- Identify air inlet;
- Control mechanism driving the results of identification.

This section does not apply to the functional characteristics of the mounting surface.

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.

Definition of terms and parameters GB/T 3505-2000 Geometrical Product Specifications Surface texture Profile method Surface Structure (Eqv ISO 4287:1997) GB/T 10610-1998 Geometrical Product Specifications Surface texture Profile method - Rules and procedures for evaluation of the surface structure (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

Terms and definitions GB/T 17446 established applicable to this section.

4 Size requirements and tolerances

4.1

pairs 1,2,3 specification code size requirements shown in Figure 1 and Table 1.

4.2

pairs of 4,5,6 specification code size requirements shown in Figure 2 and Table 2.

4.3

The main valve mounting surface dimensions and geometric tolerance shown in Figure 3, Figure 4 and Table 3.

4.4

mounting surface, including geometric tolerance dotted line framing of continuous surface, the following.

--- Surface roughness. $R_{Ra} \leq 1.6\mu\text{m}$ (see GB/T 3505, GB/T 10610);

--- Flatness. 100mm distance within the range of 0.1mm.

4.5

valve mounting surface should not have additional outside air intake shown. Installation should include an aperture surface shown connected to an open seat on the pass Crossing.

GB/T 7940.1-2008/ISO 5599-1:2001