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

GB/T 36703-2018

Hydraulic fluid power -- Pressure switches -- Mounting surfaces

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method equivalent to ISO 16873.2011 "hydraulic transmission pressure switch mounting surface".

The documents of our country that have a consistent correspondence with the international documents referenced in this standard are as follows.

---GB/T 14043-2005 Hydraulic transmission valve mounting surface and the identification code of the cartridge valve hole (ISO 5783.1995, IDT);

---GB/T 17446-2012 Fluid drive system and component vocabulary (ISO 5598.2008, IDT).

This standard has made the following editorial changes.

--- The reference dimensions in Figures 1 and 2 are bracketed by national standards.

This standard was proposed by the China Machinery Industry Federation.

This standard is under the jurisdiction of the National Hydraulic and Pneumatic Standardization Technical Committee (SAC/TC3).

This standard was drafted. Beijing Huade Hydraulic Industry Group Co., Ltd., Beijing Machinery Industry Automation Research Institute Co., Ltd.

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Introduction

In hydraulic systems, power is transmitted and controlled through pressurized fluid in a closed circuit, which is an important component of the system.

When the preset pressure is reached, the switch contacts act.

Hydraulic transmission pressure switch mounting surface

1 Scope

This standard specifies the mounting surface of the pressure switch and provides a reference for the standardized arrangement of pressure switches, hydraulic valves and mounting plates.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 3601-2:2008 Fluid transmission systems - O-rings - Part 2. s

tems-O-rings-Part 2. Housing dimensions for general applications)

ISO 5598 Hydraulic Drive System and Component Vocabulary
(Fluid power systems and components-Vocabulary)

ISO 5783 Hydraulic Drive Valve Mounting Surface and Cartridge Valve Hole Identification
Rules (Hydraulic fluid power-Code for identi-

fication of valve mounting surfaces and cartridge valve cavities)

3 Terms and definitions

The terms and definitions defined in ISO 5598 apply to this document.

4.1 This standard uses the following symbols.

P and L---port;

F---threaded hole;

G--- positioning pin hole.

5 tolerance

The mounting surface (ie the area within the dashed line in Figures 1 and 2) shall meet the following requirements.

---Surface roughness. see ISO 3601-2.2008, 5.1.4 and 5.2.3;

---Surface flatness. see ISO 3601-2.2008, 5.1.4;

---Locating pin hole diameter tolerance. H12.

6 dimensioning

The dimensions of the mounting surface of the pressure switch are shown in Figure 1 and Figure 2, respectively.

Mounting surface of pressure switch with P port (code. GB/T xxxx-01-01-0-xxxx)

Mounting surface of pressure switch with P and L ports (code. GB/T xxxx-01-02-0-xxxx)