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

GB/T 2877-2007

Replacing GB/T 2877-1981

**Hydraulic fluid power -- Two-port slip-in cartridge valves --
Cavities**

(English Translation)

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Foreword

This standard is GB/T 2877-1981 revised "Cartridge valve mounting hydraulic connection size". At the time of the revision of the reference ISO/DIS7368.2 "Hydraulic two-way cartridge valve cover installation and connection dimensions." this standard compared with GB/T 2877-1981, the main technical content changes as follows.

- Change the standard name;
- Changing the dimensions (valve hole) identification code;
- On size 16 to 63 will be separated from the relief valve is installed to connect to other dimensions;
- Increasing the diameter 125mm and 160mm two specifications of the installation size.

Since the implementation of this standard replaces GB/T 2877-1981.

The standard proposed by China Machinery Industry Federation.

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

1 Scope

This standard specifies the two-plate hydraulic cartridge valve (hereinafter referred to as cartridge valve) Installation dimensions and their other data relevant to the Ensure product interchangeability.

This standard applies to cartridge valves general industrial equipment used.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 14043 Hydraulic valve mounting surfaces and cartridge valve cavities identification code (GB/T 14043-2005, ISO 5783.

1995, IDT)

GB/T 17446 Fluid power systems and components Terminology (GB/T 17446-1998, idt ISO 5598. 1985)

3 Definitions

Terms and definitions GB/T 17446 in established apply to this standard.

4 Symbol

4.1

Standard, the following symbols.

a) A, B, X, Y, ZX and ZY used to identify ports, and in some cases may be different from the following example.

Example.

--- A. in the hydraulic circuit of the inlet port and the working port, the oil port;

--- B. in the hydraulic circuit of the inlet port and the working port, the oil port;

--- X. pilot port, the inlet;

--- Y. pilot port, return port;

--- ZX. auxiliary pilot port, the inlet;

--- ZY. auxiliary pilot port, return port.

b) F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, and F12 represents a threaded hole connector screws.

c) G, G1, G2 represents dowel hole.

4.2

standard used in line with GB/T 14043 stipulated identification code.

5 Tolerance

5.1

The following values apply to Cartridge valve mounting surface, that is within the two-dot chain Region.

--- Surface roughness. As shown in FIG. 1 to 16;

--- Surface flatness. each 100mm distance of 0.01mm;

--- Dowel hole diameter tolerance. H13.

--- Remaining dimensions shown in Figure 1 to 16.