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

GB/T 879.2-2018

Replacing GB/T 879.2-2000

Spring-type straight pins -- Slotted -- Light duty

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Foreword

GB/T 879 "elastic cylindrical pin" consists of five parts.

---GB/T 879.1 elastic cylindrical pin straight groove heavy;

---GB/T 879.2 Elastic cylindrical pin straight groove light;

---GB/T 879.3 elastic cylindrical pin rolled heavy;

---GB/T 879.4 elastic cylindrical pin rolling standard type;

---GB/T 879.5 Elastic cylindrical pin for light weight.

This part is the second part of GB/T 879.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part replaces GB/T 879.2-2000 "elastic cylindrical pin straight groove light type", compared with GB/T 879.2-2000, the main technology

The changes are as follows.

---Change the nominal diameter size code (see Chapter 1, Figure 1, Table 1);

--- For high quality carbon steel, $C \geq 0.64$ is changed to $C \geq 0.65$ (see Table 2);

--- Increase the provisions for "non-chain flexible sales (N type)" (see Figure 1 and Table 2);

--- For steel, martensitic stainless steel elastic pin, increase the hardness test provisions (see Table 2);

--- For steel elastic pins, increase the technical requirements for non-electrolytic zinc sheet coating according to GB/T 5267.2 (see Table 2);

--- For stainless steel elastic pins, increase the passivation treatment technical requirements according to GB/T 5267.4 (see Table 2).

This section uses the redrafting method to modify the use of ISO 13337.2009 "elastic cylindrical pin straight slot light".

The technical differences with ISO 13337.2009 and their reasons are as follows.

--- In the normative reference documents, replace the international standards with Chinese standards (see Chapter 2), increase the reference GB/T 879.1 (see paragraph 1)

Chapter), GB/T 5267.2 (see Table 2), GB/T 5267.4 (see Table 2), GB/T 11376 (see Table 2), GB/T 15519 (see

Table 2), GB/T 90.2 (see Table 2) and GB/T 1237 (see 6.1) to meet the basic standards of fasteners in China;

--- Amend the explanatory text in Table 1 to the note of the table "Note. the preferred length range between the solid lines of the ladder." (see Table 1), and other current

The national standard is consistent;

--- Increased steel elastic pin, non-electrolytic zinc sheet coating technical requirements in accordance with GB/T 5267.2 (see Table 2), in line with steel elastic pin surface protection

Corrosion requirements;

--- For stainless steel elastic pins, increase the passivation treatment technical requirements according to GB/T 5267.4 (see Table 2) to meet the stainless steel elastic pin surface

Anti-corrosion requirements;

--- Add "if other technical requirements or surface treatment, should be provided by the supply and demand agreement" (see Table 2) to expand the scope of use of the product;

--- Increase packaging technical requirements (see Table 2) to meet the basic standards of fasteners in China;

---In Table 2, add an angle note "b When using electroplating or phosphating, hydrogen embrittlement is unavoidable, and hydrogen treatment should be taken immediately (see GB/T 5267.1). "In accordance with the provisions of GB/T 5267.1 (see Table 2);

--- Modify the tag example as a simplified tag example (see 6.2) to comply with the provisions of GB/T 1237.

This part was proposed by the China Machinery Industry Federation.

This part is under the jurisdiction of the National Fastener Standardization Technical Committee (SAC/TC85).

This section is responsible for drafting the unit. China Machine Productivity Promotion Center.

Participated in the drafting of this section. Shanghai Baling Standard Parts Co., Ltd., Anhui Ningguo Dongbo Fastener Co., Ltd., Zhejiang Huifeng Steam

Distribution Manufacturing Co., Ltd., Machinery Industry General Parts Product Quality Supervision and Inspection Center.

This part is explained by the National Fastener Standardization Technical Committee.

The previous versions of the standards replaced by this section are.

---GB/T 879.2-2000.

Elastic cylindrical pin straight groove light

1 Scope

This part of GB/T 879 specifies the type dimensions, applications, technical conditions and markings of straight grooved, lightweight spring pins.

This section applies to the nominal diameter $d_1=2\text{mm}\sim 50\text{mm}$, the material is steel, austenitic and martensitic stainless steel, with straight groove and light weight

Loaded elastic cylindrical pin.

Note. The selection of the nominal diameter should be considered. the elastic pin can be loaded into another pin or used in combination with the heavy duty pin specified in GB/T 879.1.

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.

GB/T 90.1 fastener acceptance inspection (GB/T 90.1-2002, idtISO 3269.2000)

GB/T 90.2 Fastener Marking and Packaging

GB/T 879.1 elastic cylindrical pin straight groove heavy (GB/T 879.1-2018, ISO 8752.2009, MOD)

GB/T 1237 fastener marking method (GB/T 1237-2000, eqvISO 8991.1986)

GB/T 4340.1 Metallic materials - Vickers hardness test - Part 1. Test methods (GB/T 4340.1-2009, ISO 6507-1.2005, MOD)

GB/T 5267.1 Fastener Plating (GB/T 5267.1-2002, ISO 4042.1999, IDT)

GB/T 5267.2 fastener non-electrolytic zinc sheet coating (GB/T 5267.2-2002, ISO 10683.2000, IDT)

GB/T 5267.4 fastener surface treatment corrosion-resistant stainless steel passivation treatment (GB/T 5267.4-2009, ISO 16048.2003,

IDT)

GB/T 11376 metal phosphate conversion film (GB/T 11376-1997, eqvISO 9717.1990)

GB/T 13683 pin shear test method (GB/T 13683-1992, eqvISO 8749. 1986)

GB/T 15519 chemical conversion film steel black oxide film specification and test method (GB/T 15519-2002, ISO 11408.

1999, MOD)

3 type size

The type and size of the pin are shown in Figure 1 and Table 1.

a Elastic pin with a nominal diameter $d_1 \geq 10$ mm, which can be selected by the manufacturer for one-sided chamfering.

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Note. For non-chain elastic pin slots (N-slots), see Chapters 5 and 6.