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GB/T 4323-2017

Replacing GB/T 4323-2002

Pin coupling with elastic sleeve

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Foreword

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

This standard replaces GB/T 4323-2002 "Pin coupling with elastic sleeve". Compared with GB/T 4323-2002, except for editorial revision, the main technical changes are as follows:

- Removed the side view drawing and parts number in Figure 1, Figure 2 and added essential dimensions;
- Made major adjustments on Table 2, Table 3 and added essential values;
- Deleted GB/T 93, GB/T 531, GB/T 1693, GB/T 3512 and GB/T 6557 in Normative references;
- Removed Figures 3 ~ Figure 5 and Table 4;
- Changed 5.2 and Table 5 in the technical requirements to 3.3 and Table 3, integrated the technical requirement in Chapter 3, and amended the contents of Table 3;
- Removed Chapter 6 "Test methods".

This Standard was proposed by and shall be under the jurisdiction of the National Technical Committee for Standardization of Machine Shafts and Accessories (SAC/TC 109).

Drafting organizations of this Standard: Leqing Coupling Factory, China Machinery Productivity Promotion Center, Taiyuan Heavy Industry Co., Ltd., Zhejiang Xipuli Seal Technology Co., Ltd., Wuhan Zhengtong Transmission Technology Co., Ltd.

Main drafters of this Standard: Huang Xiaojing, Ming Cuixin, Wang Xiaoling, Xi Weimin, Yu Xiaosuo, Li Haibin.

The previous releases of the standards replaced by this standard are:

- GB/T 4323-1984, GB/T 4323-2002.

Pin coupling with elastic sleeve

1 Scope

This Standard specifies the structural types, basic parameters, main dimensions, marking method, technical requirements and inspection rules of the standard LT type and LTZ type elastic sleeve pin couplings (hereinafter referred to as the coupling).

This Standard is applicable to the driving shaft system connecting the two coaxial lines with transmission nominal torque of $16\text{N}\cdot\text{m}\sim 22\,400\text{N}\cdot\text{m}$ at working temperature of $-30^{\circ}\text{C}\sim +100^{\circ}\text{C}$, and has the function of compensating the relative displacement of the two axes and buffering the axes.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 528 Rubber, vulcanized or thermoplastic. Determination of tensile stress-strain properties

GB/T 529 Rubber, vulcanized or thermoplastic. Determination of tear strength (Trouser, angle and crescent test pieces)

GB/T 531.1 Rubber, vulcanized or thermoplastic. Determination of indentation hardness. Part 1: Durometer method (Shore hardness)

GB/T 699 Quality carbon structure steels

GB/T 1681 Rubber. Determination of rebound resilience of vulcanizates

GB/T 1682 Rubber, vulcanized. Determination of low-temperature brittleness. Single test piece method

GB/T 1689 Rubber vulcanized. Determination of abrasion resistance (Akron machine)

GB/T 1690 Rubber, vulcanized or thermoplastic. Determination of the effect of liquids

GB/T 3098.2 Mechanical properties of fasteners. Nuts

GB/T 3852 Types and dimensions for coupling bores and their connection

5.6 The working surface of the brake wheel shall be quenched. The hardness is 40 HRC~ 50 HRC, and the depth of effective hardened layer is 2mm~ 3mm.

5.7 The heat treatment hardness of the pin is 241 HBW ~ 269 HBW.

5.8 the maximum torque transmitted by the instantaneous overload of the coupling is twice that of the allowable torque.

5.9 For selection of coupling, see Appendix A.

6 Inspection rules

6.1 Factory inspection

6.1.1 Each set of couplings shall be inspected in accordance with the requirements of Chapter 3 and the drawings before exiting the factory.

6.1.2 Each set of couplings shall be inspected and qualified by the manufacturer's product quality inspection department. The product quality certificate shall be attached before exiting the factory.

6.2 Type inspection

6.2.1 Inspection requirements

Type inspection shall be carried out when it is the first time of production, there is a major change in the product structure, material and process, or so required by the contract.

6.2.2 Inspection items

The inspection items shall be in accordance with 6.1.1.

6.2.3 Sampling and batch rules

When the first output of the coupling is less than 10 sets, pick 1 set for spot check; when 10~ 50 sets, spot check 2 sets; when more than 50 sets, check 3 sets. If it is not qualified for the first inspection, double the number of sampling for a second spot check; if it fails again, check the whole batch.

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Accountable person and shareholder: Wayne Zheng

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, Sales@ChineseStandard.net

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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