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

GB/T 859-2025

Replacing GB/T 859-1987

Fasteners - Single coil spring lock washers - Light type

紧固件 弹簧垫圈 轻型

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 859-1987 "Lightweight Spring Washers". Compared with GB/T 859-1987, the main differences are structural adjustments and editorial changes. Aside from the changes, the main technical changes are as follows:

a) Specifications

2.5 were added, and some d-dimensions were changed (see Table 1, Chapter 3, 1987 edition);

b) A table of technical requirements and referenced standards has been added (see Table 2);

c) Passivation requirements for stainless steel gaskets have been increased (see Table 2);

d) Added "If other technical requirements or surface treatments are needed, they shall be determined by the supply and demand agreement" (see Table 2);

e) Added signs and labels (see Chapter 6). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the China Machinery Industry Federation. This document is under the jurisdiction of the National Fastener Standardization Technical Committee (SAC/TC85). This document was drafted by: China Machinery Productivity Promotion Center Co., Ltd., Hangzhou Spring Washer Co., Ltd., and Zhejiang Meiri Intelligent Equipment Co., Ltd. The company, Yuhuan Tuoyue Machinery Co., Ltd., and Yuhuan Chunhui Vehicle Axle Co., Ltd. This document is subject to interpretation by the National Fastener Standardization Technical Committee. The release history of this

document and the document it replaces is as follows:

---First published in 1966 as GB/T 859-1966, revised for the first time in 1976, and revised for the second time in 1987;

---This is the third revision. Fasteners, spring washers, lightweight

1 Scope

GB/T 859-2025 is the Chinese national standard covering the light series spring lock washer - its dimensions and the free height that gives it its spring, the material and hardness, the surface treatment, and the tests on a component fitted by the mill. It replaces GB/T 859-1987, a standard thirty-eight years old. In force from 1 February 2026. Issued on 31 October 2025, it has been in force since 1 February 2026, replacing GB/T 859-1987.

This document specifies the types, dimensions, technical requirements, markings, labels, and markings for lightweight spring washers. This document applies to lightweight spring washers (hereinafter referred to as "washers") with a size of 1.6mm to 30mm.

Note. When the spring washers specified in this document are used with

12.9 grade bolts and screws, attention should be paid to the phenomenon of spring washer expansion.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document. GB/T

90.1 Acceptance Inspection of Fasteners GB/T

90.2 Fastener marking and packaging GB/T

94.1 Technical conditions for elastic washers - Spring washers

GB/T 1220 Stainless Steel Bars GB/T 1222 Spring Steel

GB/T 1237 Fastener Marking Method

GB/T 3099.4 Fastener Terminology - Control, Inspection, Delivery, Acceptance and Quality

GB/T 3114 Copper and Copper Alloy Flat Wire

GB/T 4240 Stainless Steel Wire

GB/T 4354 High-quality carbon steel hot-rolled wire rod

GB/T 4357 Cold-drawn carbon spring steel wire

GB/T 5267.1 Electroplating coatings for fasteners

GB/T 5267.2 Non-electrolytic zinc sheet coating for fasteners

GB/T 5276 Fasteners - Bolts, Screws, Studs and Nuts - Size Designations and Markings

YB/T 5319 Trapezoidal steel wire for spring washers

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4.Type and Dimensions The type of washer is shown in Figure 1, and the dimensions are shown in Table 1. Dimension codes and markings shall conform to GB/T 5276.